THE CHEMIST AND DRUGGIST

TELEPHONE 1852 NUMBER

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EVANS AND SONS (LIMITED),

CANADA and UNITED STATES.

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MANUFACTURING CHEMISTS, DISTILLERS OF ESSENTIAL OILS.

Manufacturers of and Dealers in all descriptions of Druggists' Sundries.

"CARNABYN"

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A Nourishing Meat & Malt Wine.

Strongly recommended by the Medical Faculty in all cases of weakened constitution, and particularly useful in cases of ladies whilst nursing, and delicate children, or in ailments where a stimulating—digestive—tonic—nutrient is indicated.

Dose—A Quarter to Two Ounces twice daily.

In Bottles, 2s. 6d., 5s., and 7s. 6d.

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Also, as supplied to H.M. The Queen and the Élite of the Aristocracy,

HOOPER'S SPARKLING SELTZER

2s. 6d. per dozen. Six dozen Carriage free.

PURE SODA, PURE POTASH, LEMONADE, AND AROMATIC GINGER ALE.

SPECIAL TERMS FOR QUANTITY.

Exchange Column, *Coloured Supplement.* Index to Advertisements, pp. 71–74.

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BATTERSEA SQUARE.

BATTERSEA, S.W.

NEAREST STATION,
OLD BATTERSEA STATION,
West London Extension Railway.

The Chemist & Druggist SUPPLEMENT

SATURDAY, APRIL 17, 1897.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see last page of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

THE CIRCULATION OF . . .

THE CHEMIST & DRUGGIST SUPPLEMENT

NEXT WEEK, APRIL 24, 1897,

WILL EXCEED 14,000,

That is to say, it will comprise the entire Drug Trade of the United Kingdom, and will, besides, extend to the whole of the Foreign Circulation of THE CHEMIST AND DRUGGIST.

Take advantage of it by advertising your wants.
If you want a Business, or wish to sell one;
If you have a Situation vacant, or wish a Situation,
You cannot do better than advertise in this Supplement.

Advertisements received by the Publisher, 42 Cannon Street, London, E.C., NOT LATER than THURSDAY, April 22, at 5 p.m.; but send earlier if you can.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

VENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.
PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.
VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—**£3,500.—LONDON.**—Old-established Business, Retail and Dispensing; returns between £3,000 and £3,500 per annum; *net profit exceeds* £750; the shop is handsomely fitted and stocked; modern house held on lease; intending investors with about £3,000 at command can have particulars.

2.—**£1,100.—LONDON (Good-class Suburb).**—Dispensing and Retail Business; very well situated, close to railway station; returns, including branch, £1,100; handsome well-appointed pharmacy; convenient modern house; price £900.

3.—**£1,000.—NORWOOD (Busy Main Thoroughfare).**—Modern Pharmacy; chiefly ready money; returns present rate between £950 and £1,000 yearly; *net profit* £250; the shop is handsomely fitted and well stocked; modern house, held on lease; price about £900.

4.—**£900.—LONDON, N.W.**—Good-class Business, with Post-office attached; returns about £900 per annum; corner premises, unique position; well fitted pharmacy and commodious house; price £850.

5.—**£1,200.—LONDON (First-class Suburb).**—Dispensing and Retail Business, situate in a favourite locality (close to park); corner premises very well fitted and stocked; returns nearly £1,200, increasing, *very profitable*; price about one year's returns; offer wanted.

6.—**£500.—LONDON, S.W.**—Light Retail Business, chiefly ready money; no immediate opposition; returns over £500 yearly; double-fronted shop, corner position; price £500.

7.—**£350.—LONDON, S.E.**—Small Retail Business; returns under £350, with *good profits*; nicely-fitted shop and ample working stock; convenient business premises held on lease; price £250.

8.—**£650. — SURREY (Charming Locality).** — Well-established Business, with Post-office attached; returns exceed £650 yearly, *with good profits*; the shop is nicely fitted and well stocked; house has six rooms, &c., small garden, low rent; price about £500.

9.—**£1,250.—EPPING FOREST (Near).**—Vendor retiring; old-established Business; returns £1,250, including a special wholesale trade in own proprietary articles which require no advertising; the business is situate in the main shopping thoroughfare; purchasers with about £1,000 at command will find this a good investment.

10.—**£400.—SURREY.**—High-class Dispensing and Retail; returns last year £400, rapidly increasing; the shop is nicely fitted; double-fronted; corner position; rent £30 per annum; capital opening for a beginner; offer wanted.

11.—**£800.—SOMERSET (Market Town).**—Old-established Business; situate in the main street; returns exceed £800; *net profit about* £250; the shop is large and attractive; convenient residence and well-stocked garden; rent low; price £675.

12.—**£500.—BOURNEMOUTH (near).** — Old-established Business situate in the High Street; returns, present rate, £500; has returned £1,000; full investigation invited; valuation of stock and fixtures only required: illness cause of sale.

13.—**£600.—GOOD-SIZED PROVINCIAL TOWN (one hour from London).**—Old-established Business, with Post-office attached; returns £600; double-fronted shop, well fitted and stocked; good house; on lease; vendor, who is desirous of meeting an early purchaser, is prepared to deal liberally with a cash purchaser.

14.—**£650.—IPSWICH.**—Old-established Business; well situate in busy part of town; returns £650; *net profit* £200; vendor will accept less than valuation of stock and fixtures to effect an immediate sale; satisfactory reasons for selling.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

SPECIAL NOTICE.—**Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with Small Capital, from £200 to £500.**

ORRIDGE & CO., 32 LUDGATE HILL, LONDON, E.C.

F. J. BRETT

VALUER,

37 Waterloo Street, LEICESTER.

References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS.

NO CHARGE TO BUYERS.

£1,100 returns.—**MIDLANDS.**—Good-class Light Retail. Dispensing, and own preparations; growing market town; established 60 years; price £850.

£800 returns.—**STAFFS.**—Very profitable Mixed Retail, Prescribing, and own specialities in centre of large population and unopposed; low rent; price £550.

£700 returns.—**LONDON, E.**—Light ready-money Retail, in rapidly growing suburb; good house, 10 rooms; rent £45; 16 years' lease to run; price £550.

£800 returns.—**BIRMINGHAM SUBURB.**—General Mixed Retail, increasing fast; vendor bought larger business; fair house; rent £20; price £650.

£400 returns.—**YORKS.**—Branch Retail, capable of being doubled by personal attention; price £200.

£700 returns.—**LONDON, W.**—Light Retail, Dispensing, and own preparations; good house, small garden; lease; price £600.

£700 returns.—**NORFOLK.**—Good-class Retail, in popular seaside resort; rent can be cleared in season by letting; price £650.

£1,300 returns.—**BIRMINGHAM.**—Good-class suburban Retail, Dispensing, &c., showing net profit of £400 per annum; satisfactory reason for sale; price £950; part can remain.

£800 returns.—**NOTTINGHAM.**—General Branch Retail, with Oils and Colours; has done nearly double, and can again under personal attention; price £500, or valuation if desired.

£550 returns.—**POTTERIES.**—Light Retail, Prescribing, &c., in increasing town; very little opposition; price £450.

£700 returns.—**LANCS.**—Mixed Retail, in manufacturing town; net profit £200; rent £26; price £500.

Vendors of good businesses can be at once supplied with buyers by F. J. BRETT.

VALUATIONS.

F. J. Brett has been well known for many years throughout England and Wales as a reliable Valuer, and his extensive experience in all branches of the trade renders his services equally valuable to Vendors and Buyers.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

35 JEWRY STREET, FENCHURCH STREET, E.C.

Established 1870.

1.—**SOUTH OF ENGLAND.**—Fashionable seaside resort; high-class Retail and Dispensing Business; good house, facing the sea; the shop is elegantly fitted in solid mahogany, heavily stocked; satisfactory reasons for selling; price 2,000 guineas.

2.—**FASHIONABLE SUBURB OF LONDON.**—High-class Retail and Dispensing Business; returns £1,600 under management; scope for increase; net profit £500; handsomely-fitted Pharmacy, well stocked; good house attached; price £1,500.

3.—**BANKS OF THAMES.**—Few miles out, S.W. of London; a Light Retail and Dispensing Business; returns average £2,000; handsome premises; good house; well fitted and stocked shop; very low rent, long lease; price £1,300, including lease.

4.—**NORFOLK (Coast).**—Light Retail, Dispensing, and Prescribing Business, doing a steady all-the-year-round trade of £800 per annum; good profits; excellent house; vendor, having purchased business in Midlands, will accept £600, or valuation.

5.—**HAMPSHIRE.**—Important town; good-class Retail and Dispensing Business; returns £1,000; elegantly fitted, well stocked; price £900.

6.—**DERBYSHIRE.**—Retail and Prescribing; returns £450; net profit £160; well-fitted corner; good house; price £300, or offer.

Particulars of the above and others free on application.

BUSINESSES WANTED.

We are in want of two or three genuine Businesses returning £700 to £1,500 yearly, where the net profit is not less than 25 per cent. Gentlemen thinking of relinquishing business are respectfully requested to communicate with us. Through the number of our daily callers we often introduce a purchaser in a few days. Terms on application.

VALUATIONS.

SPECIAL ATTENTION is paid to Valuations, which are personally conducted by a member of the firm, in any part of the United Kingdom. Our terms, which are moderate, may be had on application.

NO CHARGE TO PURCHASERS.

35 JEWRY ST., FENCHURCH ST., CITY.

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JUDD & MANNERS

Chemists' Valuers, Transfer Agents, & Accountants,

76 CANNON STREET, LONDON, E.C.

VALUATIONS made for Probate or Transfer by a fully qualified member of the firm. Books Audited, Balance Sheets Prepared and Chartered Accountants' Certificate given. Terms (moderate) on application.

MARKET TOWN, HOME COUNTIES.—Very old-established Country trade; returns £1,400; price £1,000; almost unopposed; capital premises, on lease.

MIDLANDS.—50 miles from London; an old-established country Business, with Wines and Spirits; returns £500; valuation of stock and fixtures will be accepted; this is a good chance for a young man with small capital and plenty of energy.

MIDLANDS.—In the centre of a busy market town; an old-established Family trade, returning £700 yearly, and capable of considerable increase; very handsome Pharmacy; good house; long lease; price £650; we strongly recommend this to the notice of an up-to-date man.

Full particulars of any of the above sent free on application.

VALUATIONS A SPECIALITY.

FERGUSON & OSBORNE

PHARMACEUTICAL CHEMISTS,

CHEMISTS' VALUERS AND TRANSFER AGENTS.

25 YEARS' PRACTICAL EXPERIENCE.

NO CHARGE TO PURCHASERS.

All VALUATIONS and STOCKTAKINGS are conducted personally by the Principals. Terms on application.

1.—**MARKET TOWN, WEST.**—Old-established Retail, with good Dental practice; first-class premises; business and residential; net profit about £370; price £900.

2.—**LONDON, S.E.**—Prescribing and Light Retail; very profitable; good house; net profit £150; price £250.

3.—**BUCKS (Market Town).**—General Retail and Prescribing Business; two shops and good residence; returns £650; price £400.

4.—**LONDON, S.W.**—Family Retail; large well-fitted shop; good house and garden; returns about £470; price £345.

5.—**BERKS (Market Town).**—Retail and Dispensing; handsome shop; good house; returns £800; price £650.

56 CHEAPSIDE, LONDON, E.C.

(Next Door to Bow Church.)

THOMAS TOMLINSON & SON,

Chemists' Transfer Agents and Valuers,

9 NEW CANNON STREET, MANCHESTER.

42 YEARS' EXPERIENCE.

Valuations Conducted with careful attention to detail.

BUSINESS WANTED.—Thomas Tomlinson & Son, having on their books an extensive list of gentlemen who have entrusted them with commissions to look up a good genuine Business, intending sellers can rely upon being at once with all despatch put into communication with bonâ-fide buyers without publicity and the annoyance of answering "curiosity" applications. **No charge made unless Sale is effected.**

BUSINESSES FOR DISPOSAL of various classes, and amounts of returns ranging from £200 to £4,000. Particulars given to bonâ-fide applicants stating outline of requirements.

NO CHARGE TO PURCHASERS.

Telegraphic Address—"Tomtom."

PARTNERSHIPS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

MIDLAND TOWN.—Wanted, Partner, qualified, with about £500, to join advertiser in opening another branch establishment in populous district in large Midland town; no opposition near; splendid opening; several thousand inhabitants; growing neighbourhood. Address, "Speculation" (85/9), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

WANTED, a Partner, about £1,000, to develop a Patent for a Drug-compressing Machine able to turn out 500 tablets per minute, and also other improvements in machinery of a like character. Applications to be addressed R. Cherkaur, Rose Villa, Jarstew Road, Dartford, Kent.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

NOTE.—"*Letters addressed 'Poste Restante' to initials or to fictitious names at Post Offices are not taken in, but are at once sent to the Returned Letter Office for disposal.*"—*From the Post Office Regulations.*

HAMPSHIRE.—In a small market town, a good-class, Light Retail, Dispensing, and Prescribing Business; returns £700; moderate rent, on lease; comfortable residence, and a nice garden in rear; price £475. "Hants" (86/33), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

HUNTINGDONSHIRE.—Chemist and Druggist's (Wine and Spirit Licence, &c.); thoroughly genuine Retail Business for immediate Disposal at centre of market town in Hunts. Established about 150 years, in present hands 36 years, who is retiring; price inclusive, £175; rent and rates low. Apply to J. Cole, Valuer, Bedford.

LEEDS.—For immediate Disposal, Chemist's Business; well-fitted-up shop, good house and stock; opening for Dentist; very few patents; rent £35; price £245. Apply Hirst, Brooke & Hirst (Limited), Leeds.

LIVERPOOL SUBURB.—Excellent Business (main road) for sale; stock and goodwill £380; Liverpool Suburb; thickest populated neighbourhood in Liverpool; splendid opening for young man; good house; all conveniences; rent £40. Call or write "Commercial" 30 Trafalgar Road, Egremont, Liverpool.

LONDON.—Old established Dispensing and Retail Business; changed hands twice in 25 years; small Patent account; several own Preparations, having regular sale; pleasant corner position in busy good-class main road; convenient house, with side and garden entrances, and in good repair; returns £600; price £500, part could remain at 5 per cent.; long lease at low rental; vendor will give an introduction and every assistance to purchaser; investigation invited. Apply, first by letter, to "Pharmacist," c/o Messrs. Evans, Lescher & Webb, Bartholomew Close, E.C.

MARKET town, within easy distance from London, an old-established country Family Business, doing about £25 a week; very nicely-fitted Pharmacy and a good stock; price about £1,000; satisfactory reasons for selling at an interview; comfortable house and pleasant district; letters only. "Syrupus," c/o Messrs. Meggeson & Co., 14 Miles Lane, E.C.

OLDBURY.—For Sale, our Retail Business; established 40 years. Apply, H. Parish & Son, Wholesale and Retail Druggists, Oldbury.

SOUTH COAST.—Returns £1,550; splendid shop; under management; good town; central position; lease 19 years; Dispensing and high-class Retail; price £700, great bargain. Apply, with Banker's or London references, "Cycle" (11/11), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

SOUTH WALES (Watering-place).—Light Retail and Dispensing, with Gilbey's Agency; large house; long lease; splendid opportunity; no opposition; good opening for Dentistry; season commencing; no Welsh spoken; returns £1,350; price £900. "South Walian" (85/27), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

WEST OF ENGLAND.—Cash Retail and Prescribing Business; returns £600, increasing. Apply, "Soda" (77/9), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

GOOD Retail and Dispensing Branch Business; returns over £200 under management; principal easily double; rent practically nil; under £20; convenient premises; good profits; splendid opportunity for beginner; satisfactory reasons for disposal; about £225 required. Apply, X. Z. (85/4), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

NOTE.—"*Letters addressed 'Poste Restante' to initials or to fictitious names at Post Offices are not taken in, but are at once sent to the Returned Letter Office for disposal.*"—*From the Post Office Regulations.*

IMMEDIATE, Light Retail Dispensing, Prescribing, showing net profit between £200 and £300; references; no agents. "Camphor" (87/3), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

CHISLEHURST.—Capital Business premises to Let in this increasing high-class neighbourhood; excellent opportunity; low rent, part let off. Further particulars A. Line, Chislehurst.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

NOTE.—"*Letters addressed 'Poste Restante' to initials or to fictitious names at Post Offices are not taken in, but are at once sent to the Returned Letter Office for disposal.*"—*From the Post Office Regulations.*

RETAIL.

BARNSLEY.—Wanted, immediately (outdoors), a smart Counterman; one accustomed to Store trade preferred. Full particulars of experience, age, height, and salary required, with photo if possible, to Oglesby's Drug Stores, Barnsley.

BIRMINGHAM.—Qualified Assistant to manage Branch Store; must be quick and obliging; liberal terms to reliable man; no Sunday duty. Application, stating salary, where last and how long employed, with photo, to Stores, 26 Queen Street, Wolverhampton.

BIRMINGHAM.—Qualified and unqualified Assistants (outdoors) for the Retail Counter. Apply, stating age, height, experience, salary required, and enclose photo (to be returned), to Hedges & Son, Cash Chemists, Dale End, Birmingham.

BOLTON, LANCS.—Wanted, a smart active qualified Assistant, for rapid counter trade; liberal salary to suitable man. Apply, Waller & Riley, Limited, Bradshawgate, Bolton.

BRIDLINGTON QUAY.—First week in May; Assistant, Minor qualification, to Manage a Branch; well recommended. Applicants state age, height, salary, reference, photo, &c., J. V. Mainprize, Central Pharmacy, Bridlington Quay.

BRIGHTON.—Junior or Improver. Send usual particulars, Leigh, 111 Blatchington Road, Hove, Brighton.

BRISTOL.—Qualified Junior (indoors) for Country Retail and Dispensing; light work; easy hours. Apply, with full particulars as to salary, &c., photo, if possible, to A. W. Gedge & Co., Fishponds, Bristol.

BUCKINGHAM.—Messrs Sirett & Son, Buckingham, have a vacancy for a Junior Assistant, accustomed to Agricultural and good-class Family business, and able to Extract Teeth; applicants must state age, height, salary required, and enclose photograph, which will be returned; no Sunday duty, comfortable home.

BURSLEM.—Assistant wanted for General Mixed business; aged 20 to 24; must be smart and of good address. Apply, with full particulars, Hewitt, Chemist, Burslem.

CANTERBURY.—A qualified Assistant; hours 8 to 8; 8 to 1 Thursday, 8 to 9 Saturday. Apply, stating full particulars (enclosing carte), to Edwin R. Biggleston, Mercery Lane, Canterbury.

CARDIFF.—Wanted, a qualified Manager for Branch; outdoor, or can live on premises. Apply, with full particulars, to Williams, Chemist, 175 King's Road, Cardiff.

CHESTER.—Wanted, a smart unqualified Assistant, used to a good-class business; also a Junior, for another Branch. State age, salary required (outdoors), and references, to Jesse Boot, Island St., Nottingham.

COLCHESTER.—Qualified Assistant for Counter, aged about 23 (2, qualified, on staff, both indoors); good experience, references, &c.; salary £60. Full particulars, enclosing c.d.v., to W. Edes Everett, St. Botolph's Pharmacy, Colchester.

SITUATIONS OPEN CONTD

RETAIL—continued.

COLONIES.—A Colonial vacancy offers in a first-class house for a qualified Assistant under 30 years of age; climate very healthy. Apply to "Imperial" (99/2), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

CRAYFORD.—Manager (married) for a Branch (just opened); newly-built and convenient house; must be gentlemanly and thoroughly trustworthy; good Prescriber and Extractor essential; highest references indispensable; salary £90 and commission, also house and gas; a reliable and suitable gentleman will be dealt with accordingly. Particulars to Ockwell, Chemist, Crayford, Kent.

DONCASTER.—Dunhill & Stiles, Pharmaceutical Chemists, Doncaster, require early in May an indoor Junior Assistant, who has been accustomed to a good-class business with Dispensing, and who can be thoroughly recommended. Apply as above, with full particulars of age, height, salary, &c.

EASTBOURNE.—Qualified Assistant (indoors); aged about 25; experienced and reliable Dispenser; accustomed to first-class business. State experience, salary exp cted, and usual particulars in first letter, J. Senior, Compton Street, Eastbourne.

HEBDEN BRIDGE.—Qualified Assistant, about 26 years of age, for good-cla s Country business. Please send photo, if conveuient (to be returned), statiug height, salary required (outdoors), and all other particulars, in first letter, to Thos. K. Hey, Chemist, Hebden Bridge.

HULL.—Wauted, after Easter, smart Junior Assistant or Improver; iudoors; one with some knowledge of the shipping business preferred. Apply, with full particulars, salary required, T. W. Robinson, Chemist, 8 Adelaide Terrace, Anlaby Road, Hull.

LEYTONSTONE, N.E.—Two Indoor Assistants required; aged from 23 to 30; one qualified, to take charge and live at a branch; last assistaut stayed six years; unqualified Assistant for a good-class business; other assistants kept. Apply to Matthews & Son, Chemists, 722 High Road, Leytonstone.

LICHFIELD.—Wanted, a steady, reliable Junior; accustomed to light Retail and Dispensiug. Apply, giving full particulars, with photo, to J. B. Bayley, Lichfield City.

LINCOLN.—Improver wanted in a large Mixed business; one who has served about two years at the trade; must be intelligent, obliging, and trustworthy; salary given; a comfortable home with time for study; hours 8 to 7.30; no objection to a chemist's sou. Apply, J. Kemp & Co., Lincoln.

LIVERPOOL.—Wanted, au Assistant for two or three half-days per week; must be reliable, and have good reference; persoual application preferred. Apply to C. Hauson, Pharmaceutical Chemist, Cressington, Liverpool.

LONDON, S.W.—Wanted, by April 20th, Assistant not under 25, accustomed to good-class business; obliging and active. State full particulars and salary required, C. Lowe & Co., Surbiton, S.W.

LONDON, W.—Qualified Assistant by the end of April; abstainer preferred. Full particulars, please, to Barton Dell, Chemist and Surgeon-Dentist, 148 King Street, Hammersmith.

LONDON, W.—Qualified Senior Assistant, for April 20; indoors; aged about 24; experienced and reliable Dispenser; accustomed to first-class business; abstainer preferred. State experience, salary required, and enclose photo, or apply personally, R. H. Parker, 35 Clifton Road, Maida Vale, W.

LONDON, W.—Junior, about 21, for Stock, and to assist at counter; abstainer preferred. J. Chilwell, 452 Oxford Street, London, W.

LONDON.—Outdoors; Second Assistant, where three kept; aged 23 or 24; must speak French; hours 1 to 12 P.M., with one hour for tea; one day weekly free from 5; no Sunday duty. Apply, with full particulars of experience, salary required, &c., to 85/22, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

LONDON, S.W.—Wauted, a qualified Assistant, as Senior (indoors); two are kept. Apply, with usual particulars, enclosing photo (to be returned), to W. T. Frost, Mason's Pharmacy, Parson's Green, Fulham, S.W.

LONDON, W.C.—At once, iudoors, a competeut Assistant, from 22 to 30 years of age; 1 only employed.—Apply, personally, or by carte, with full particulars, to Robert Bird, Parmaceutical Chemist, 103 High Holborn.

LONDON, N.—Indoor Assistant, single, aged from 23 to 30, for a middle-class Dispensing and Retail in North London; must be pushing aud energetic; one day weekly from 3 o'clock off duty; alternate Sundays on duty from 6 to 10. Apply, stating age, references, qualification, experience, salary, &c., to "Chemist," 115A Stoke Newington Road, N.

MARLOW.—Wanted immediately, a smart, trustworthy Assistaut as Junior in a good Retail and Dispensiug Business; one with a knowledge of Photography preferred. Apply, giving full particulars of age, height, experience, references, salary required indoors, and enclosing photo, to C. Page Dye, Family, Dispensing and Photographic Chemist, Marlow.

NEWPORT, MON.—Immediately, Junior or Improver; indoors; half day off weekly, and every other evening; one hour's duty alternate Sundays, from 8 to 9 P.M.; comfortable home; assistance in Minor subjects if desirable. State full particulars, age, height, salary, &c., Benson Harries, Chemist, Newport, Mon.

PAIGNTON.—Wauted, immediately, qualified Junior for Drug Departmeut of high-class Store; good Dispenser and Counterman; short hours; progressive salary; enclose photograph. R. Cleave, M.P.S., Deller's Stores, Paignton.

READING.—A Junior Assistant wanted. Please state all particulars, age, experience, salary required, &c., Tunbridge & Wright, Reading. Applications not answered within three days may be considered declined.

SHANKLIN, I.W.—Wanted, Junior Assistant; May 1; outdoors: for the season; state salary required, age, and height, with photo. C. E. Moorman, Chemist, Shanklin, I.W.

SHEFFIELD.—Wanted, two smart Assistants with good references. Apply, stating age and salary required, to Twelves, Chemist, Sheffield.

SPALDING.—Wauted, Dispenser and Bookkeeper; satisfactory references required; no medical man or medical student need apply. Reply (enclosing photo), stating salary, age, and height, to Stiles & Jacksou, Surgeons, Spaldiug.

ST. LEONARDS.—Competent Assistant (about 26), accustomed to high-class Retail and Dispensing business; must be well recommended. Particulars (with photo if convenient) to F. Rossiter, 9 Grand Parade, St. Leonards-on-Sea.

TUNBRIDGE WELLS.—Battiug & Co. want Junior Assistant, for Light Retail and Dispeusing, next week; tall, steady, and good Counterman; must write a neat, legible haud; uo store hands need apply. State age, height, salary required, aud name referee, enclose photo (shall be returned), "Chemists and Dentists," 16 Calverley Road.

WALSALL.—Elliott & Son, Pharmaceutical Chemists, Walsall, have a vacancy for a qualified Assistant; outdoors; apply, with photo and full particulars; application not to be made before Thursday, 22nd inst.

WESTON-SUPER-MARE.—Wanted, a Junior or Improver (indoors). Apply, stating age, height, salary required, whether abstainer, and enclosing photo, to Edwiu Norman, Pharmacist, 35 High Street, Weston-super-Mare.

ASSISTANT; not under 30; good Extractor; to live on premises; rooms unfurnished. C. B. A., c/o Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

QUALIFIED man wanted, to manage Brauch; good Mixed business; must hold undeniable references, covering at least 5 years. State all particulars in first letter—*i.e.*, salary required, age, height, married or single; none but diligeut and steady men need apply. Address, "Saffron" (73/68), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

SMART Assistant, unqualified, with good references; indoors. Apply, stating age and salary required, to B., c/o Messrs. Wright, Layman & Umney, 50 Southwark Street, S.E.

SEASIDE.—Wanted, after Easter, till the middle of October, a qualified, gentlemanly Assistant, who must have had good Dispensing experience; steady and reliable; easy hours; no Sunday duty. Apply, stating age, height, and salary required (indoors), enclosing photo (to be returned), to Randall & Son, The Pharmacy, Swanage.

WANTED, a geutlemauly, qualified, Junior Assistant in Dispeusing and Light Retail business. Address full particulars, with reference, to G. T. (86/35), Office of The Chemist and Druggist, 42 Cannon Street, E.C.

RETAIL—continued.

BRIGHTON, HOVE, AND PRESTON DISPENSARY.

THERE is a vacancy for a duly qualified non-resident male Dispenser at the Hove Branch, Sackville Road; salary £70 per annum; hours attendance 10 A.M. and 4 P.M. daily, for about 2 or 3 hours; each candidate must send his application in writing, enclosing testimonials, showing that he has been accustomed to prepare medicines and compound prescriptions at least five years previously, and a certificate of having passed the Minor Examination of the Pharmaceutical Society, to the Honorary Secretary not later than the 26th inst. For further particulars apply to the Assistant Secretary, Mr. A. F. Graves, Dispensary, Queen's Road, Brighton.—C. Somers Clarke, Hon. Sec., Board Room, Queen's Road, Brighton, 6th April, 1897.

WHOLESALE.

LANCASHIRE AND YORKSHIRE.—A firm of Wholesale Druggists are open to take up one or two good commissions for Lancashire and Yorkshire, and North of England or Midlands. Address, 84/25, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE.—Wanted, a competent, active man, to take charge of Dry Floor. Apply by letter, Corbyn, Stacey & Co., 22 Great St. Helen's, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 6 words beyond.

NOTE.—*"Letters addressed 'Poste Restante' to initials or to fictitious names at Post Offices are not taken in, but are at once sent to the Returned Letter Office for disposal."—From the Post Office Regulations.*

RETAIL.

JUNIOR; aged 20; tall; 4 years' experience. Sant, The Hurst, Stretton, Stafford.

LOCUM or permanency; 6 years' first class experience; age 21. 14 Victoria Place, Leeds.

MANAGER; qualified; 35; disengaged; experienced. C., 516 King's Road, Chelsea, S.W.

JUNIOR; 20-21; disengaged May 7th; Dispensing. Gurnell, 17 Hill Street, Richmond, S.W.

ASSISTANT; 23; Photographic, Dispensing experience. Sholl, 66 Western Road, Ealing, W.

ASSISTANT or Manager; qualified; 26; experienced. "Trional," 286 Cowbridge Road, Cardiff.

JUNIOR or Improver; 3 years; 19; tall; near Bristol preferred. T. B., 291 Bishopston, Bristol.

JUNIOR, in Dispensing or Manufacturing department; 24. H. S., 8 Holland Street, Clapham Road.

MINOR; London and Country experience; aged 35. "Delta," 134 Theobald's Road, London, W.C.

PART-TIME; London; qualified; 22; Chemist or Doctor. Webb, 89 Brook Street, Kennington, S.E.

JUNIOR; 20; 5 years' experience; height 5 ft. 10 in. Spafford, 261 London Road, St. Leonards-on-Sea.

PART-TIME; London; outdoors; time easily arranged. "Student," 40 Cleaver Street, Kennington, S.E.

LOCUM or outdoor permanency, in town; qualified; 23. "Verax," 144 Warwick Road, Kensington, W.

ASSISTANT; part-time; outdoors; from 9 A.M. to 5 P.M. "Chemist," 49 Southfield's Road, Wandsworth.

HOLIDAY Locum; could come immediately; wire "reply-paid." "Locum," 2 Talbot Road, Southsea.

LOCUM TENENS; 30; Extractor; Prescriber; day or week. "Statim," 160 Whiteladies' Road, Bristol.

PART-TIME. Manchester, by student; Doctor or Chemist. Cooling, 1 Delauney's Road, Crumpsall, Manchester.

JUNIOR; 21; 6 years' experience; good references; abstainer; able to extract. Church, Branch Road, Batley.

ASSISTANT; aged 27; good counterman; 10 years' experience. "Dulcis," 167 Cambridge Road, London, E.

QUALIFIED; first-class experience; accustomed to management; successful Prescriber. P. M., 81 Ledbury Road, W.

JUNIOR, 21½, wants situation in quick Store business for three months; good references. Waldby, 29 High Street, Hampstead.

MANAGER (qualified); Tooth-extractor; aged 38; married; no children; or Locum-tenens. A. B., 27 Amhurst Park, N.

CERTIFICATED Dispenser; 25; thoroughly experienced; outdoors preferred. "Trional," 17 Trinity Square, Borough, London.

QUALIFIED; outdoors; aged 26; good London Dispensing and Retail experience. Evans, 1 Louvaine Road, Clapham Junction.

PART-TIME; varied experience; good Prescriber, Extractor, and Salesman; moderate terms. "Statim," 66 Etta Street, New Cross.

MANAGER, or Locum; aged 35; qualified; married; Manchester district preferred. "Centre," 72 Great Western Street, Moss Side, Manchester.

ASSISTANT; unqualified; 24; good references: Drug Stores and Lancashire preferred. 85/34, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BRANCH Manager; 29; good experience; unqualified; competent Prescriber; Dispenser. "Extractor," c/o Messrs. Rees, Chemists, St. George's Road, Bristol.

QUALIFIED Assistant or Manager; first-class experience; good references; knowledge of Photography; Extractor; aged 28. Brimson, Keyford, Frome.

QUALIFIED; married; good experience of modern Cash trade; Photography; disengaged shortly; permanency desired. "Manager," 69 Lewes Road, Brighton.

DISPENSER; Apothecaries' Hall qualification; Medallist in Chemistry and Pharmacy; abstainer; 6 years' experience. Saunders, Copford, Colchester.

JUNIOR; 19; passed Preliminary; just out of apprenticeship; good experience in Dispensing and high-class Retail; highest references. W. R., 2 Uxbridge Square, Carnarvon.

IMPROVER or Junior; 21; time for study; 2 years' experience, principally Dispensing (best-class). "Galen" (86/24), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; 7 years' experience; good Extractor; height 5 ft. 4 in.; Retail and Dispensing; good references; Birmingham preferred. "Ducis," 78 Gooch Street, Birmingham.

WANTED Situation; Nottingham or district preferred; 8 years in last situation; Extractor, Prescriber; unqualified; married; good references. "Alpha" (82/22), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE.

CHEMIST desires position as Traveller; well qualified for duties. "Drugs," 50 Leppoc Road, Clapham, London, S.W.

AS Representative for two or more firms abroad; well acquainted with chief towns of Europe, India, Straits Settlements, and China. B. (79/35), Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TRAVELLER, calling on Chemists and Grocers, representing first-class English house in Ireland, wishes to meet with another who would pay part salary and expenses. "Medicus," 26 Stephen's Green, N., Dublin.

MISCELLANEOUS

Special charges are made for Advertisements under this heading, which can be obtained on application.

NOTE.—"*Letters addressed 'Poste Restante' to initials or to fictitious names at Post Offices are not taken in, but are at once sent to the Returned Letter Office for disposal.*"—*From the Post Office Regulations.*

DAISY Window Attractions are so successful that Mr. Agar, chemist, South Bank, wrote to say that had he not occasionally taken it out, the window would most certainly have been pressed in by the crowd. If you want your window smashing thus, write for particulars. "Daisy," Leeds.

FOREIGN and Colonial Houses or Manufacturers' Agents, with sound connection and non-conflicting lines, wanted, to represent a high-class Manufacturing Perfumery, Soap, Toilet Sundries house (English) on commission. Terms, advantageous and lucrative, address the C. P. Co., 9 Butler Street, London, E.C., England.

SULPHUR tablets, and sulphur and sarsaparilla tablets; the best made; send for samples free; sulphur tablets, 2 cwt. at 36*s*., 1 cwt. at 38*s*., ½-cwt. at 21*s*., under 5*d*. lb.; sulphur and sarsaparilla, 2 cwt. at 41*s*., 1 cwt. at 45*s*., ½ cwt. 25*s*, under 28 lbs. at 6*d*.; all carriage paid, cases free; window tickets supplied free, various priced wordings. White, Chemist, Leicester.

CHEMISTS' Shop-fixtures.—Ranges mahogany drawers, with bev edge glass labels and cut-glass knobs, shelving above, lockers be mahogany dispensing-screens; counters with glass-case fronts; wall-c bent-front and flat-top counter-cases; counter-desks; tooth-brush c complete shop-rounds, &c.; every requisite for chemists, new and sec hand; extensive stock to select from, at extremely low prices; prac men sent to all parts; estimates free. Matthews, Chemists' F 14 Manchester Street, Liverpool.

TO CHEMISTS AND DRUGGISTS.—The Koko Maricopas pany (Limited), 11 Gray's Inn Road, London, will supply a Flag Pole (free) to be fixed over the shop, with the words in white le "Koko for the Hair," and with the name, &c., of Chemist underne this is found to be a splendid advertisement for Chemists and Drugg a beautiful picture of Miss Ellen Terry (framed, 22 in. by 16 in.) c had on application either to Messrs. Butler & Crispe, 82 Clerkenwell R London, or to the Company at above address; write for particulars.

CHEMISTS' Shop-fittings.—Complete set suitable for high Pharmacy, £60 complete:—12-ft. wall-fitting, mahogany-fr drawers, glass labels and cut knobs, shelving, cornice, and lockers, 10-ft. mahogany and plate-glass serving-counter, fitted with drawer cluding label and till drawers; handsome and attractive dispensing- bevelled-mirror centre, with plate-glass counter and sponge-case 6-ft. wall-case, glass doors top and bottom, fitted with shelves; mah desk and plate-glass perfume-case; mahogany and bent plate-glass co case, with display-shelves at back; 144 English hand-made shop-r gold-labelled; 1 doz. pink dome-covered ung.-jars, gold-labelled; F scales and brass weights, stamped; all in first-class condition; rea use and fit any shop. Can be seen at Philip Josephs, 54 Old Street Road, London, E.C.

CUCUMBER AND GLYCERINE.

ROUSE'S Cucumber Paste is the best for preparing Cucumber Em of any kind; sheet of formulæ and attractive labels free wit jar; ½ lb. (for 3 lbs. emulsion), 2*s*. 3*d*.; 1 lb., 4*s*. 3*d*.; 7 lb., 25*s*.; eac free. Rouse Brothers, 61 Charlotte Street, London, W.

THE ART OF DISPENSING.

This popular work treats of all the manipulative details involved in compounding medical prescriptions, special attention being given to dis difficulties, and to notes on new remedies.

The Book contains 280 pages. Price 3s. 6d.; by post, 3s. 10d.

A MANUAL OF PHARMACEUTICAL TESTING.

Comprising simple instructions for the testing of the Chemicals of the British Pharmacopœia, &c., with such materials and appliances common use at the dispensing counter. By Barnard S. Proctor, F.I.C.

The Book contains 176 pages. Price 2s 6d.; by post, 2s. 9d.

VETERINARY COUNTER PRACTICE.

Nearly 300 pages. Illustrated. 3s. 6d.; by post, 3s. 9d.

PHARMACY AND POISON LAWS OF THE UNITED KINGDO

Indispensable to every Pharmacist, and a necessary part of the technical education of every Chemist's apprentice.

Price 2s. 6d.; post free, 2s. 9d.

THE HANDY-BOOK OF MEDICINE-STAMP DUTY.

This work has been written for us by Mr. E. N. Alpe, of the Solicitor's Department, Inland Revenue Office, Somerset House, who has h experience in, and intimate knowledge of, the administration of the Acts which regulate the sale of proprietary medicines.

The most recent modifications in the law and practice relating to medicine-stamp duty are incorp in a Supplement which has been added to this work.

Contains 142 pages. Price 2s. 6d.; by post, 2s. 9d.

SCIENTIFIC MYSTERIES.

For sale at 1s. To Chemists, 8s. 6d. per dozen.

GUIDE TO PRELIMINARY EXAMINATION.

2s.; by post, 2s. 3d.

Published at the Offices of

"THE CHEMIST AND DRUGGIST," 42 CANNON STREET, LONDON, E.C

Post Office Chambers, 231 Elizabeth Street, Melbourne, Victoria. 12 Empire Chambers York Street, Sydney, New South Wales.

SUMMARY OF PRINCIPAL CONTENTS OF TO-DAY'S ISSUE OF "THE CHEMIST AND DRUGGIST."

A UMBER of useful formulæ are printed on p. 620.

S E funny things are happening "At the counter" this wee p. 621).

S E useful pieces of laboratory and shop apparatus are desc ed on pp. 614–15.

T extremely complicated chemico-legal case regarding the odamine dyes has been decided in favour of the defe lants (p. 638).

D W. H. INCE communicates an amusing article on a curi s native Pharmacopœia which he has discovered in the est Indies (p. 614).

A UBSCRIBER in Japan sends us some amusing and pertine reflections on the value of the Minor certificate at hon and abroad (p. 616).

"E Two" is not contributed by Edna Lyell, but by a pha aceutical poet, who moralises on the master's feelings and he apprentice's (p. 620).

RKE'S Drug-stores have succeeded in proving that an off line-licence must be granted by magistrates (p. 637). The aw of the matter is referred to on p. 637.

. KOCH'S work in combating the rinderpest epidemic in uth Africa is the subject of an article on p. 612, which is ustrated with pictures of Dr. Koch at work, and of some lea ng colonists.

R representative in France has interviewed the director of e Chemical Control Bureau regarding the system by wh h the quality of pharmaceutical products is controlled th (p. 617).

R. B. S. PROCTOR has made a thorough investigation of the hy phosphorous method for the estimation of bismuth, and d not find it so valuable as has been suggested. He en s fully into the matter in an article beginning p. 631.

THE latest store-prices are quoted on p. 602.

SCOTCH chemists who sell medicated wines must now take out grocers' licences (p. 637).

THE business of Mr. J. C. Eno in fruit-salt, &c., is converted into a limited company (p. 647).

WE commence a report of the Dispensing Difficulties Competition on page 611. There are some good things in it.

A CONTRIBUTOR gives further particulars regarding the irregularities in the Irish poor-law drug-contract system (p. 609).

MR. HYSLOP and Mr. Warren, two of the candidates for the Council of the Pharmaceutical Society, favour us with their views (p. 627).

A MAN in Bedford has got five years' penal servitude for obtaining goods from Messrs. Butler & Crispe, and other firms, by false pretences (p. 603).

THE Privy Council have completed the examining-board of the Apothecaries Hall of Ireland, thus defeating the General Medical Council (p. 604).

A SUMMARY is given of the new Pharmacy Act in Natal, with an outline of the examinations recently organised by the Natal Pharmacy Board (p. 624).

COCA-WINE of commerce is somewhat variable, according to Mr. John Barclay, who submits results and describes an easy method of assay. His paper includes a note from the Board of Inland Revenue regarding the conditions upon which coca-wine may be sold without a licence (p. 618).

THE Irish Pharmaceutical Council last week resolved to present a loyal address to the Queen on the occasion of her Diamond Jubilee. They also arranged to hold a series of educational meetings, and to make elementary chemistry a compulsory subject in the Preliminary examination (p. 608).

ORDER FORM.

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42

If you have anything to dispose of, or if you want anything, use this Form.

Office: 42 CANNON STREET, LONDON, E.C.

Exchange Column—Bargains

THE CIRCULATION OF . . .

THE CHEMIST & DRUGGIST SUPPLEMENT

NEXT WEEK, APRIL 24, 1897,

WILL EXCEED 14,000,

That is to say, it will comprise the entire Drug Trade of the United Kingdom, and will, besides, extend to the whole of the Foreign Circulation of The Chemist and Druggist.

Take advantage of it by advertising Old and Surplus Stock, which can be turned quickly into cash by this means, and Apparatus, Books, &c., can be disposed of to advantage. The whole Trade reads this page.

BARGAIN NUMBER,

APRIL 24, 1897.

Advertisements received by the Publisher, 42 Cannon Street, London, E.C., NOT LATER than THURSDAY, April 22, at 5 p.m. but send earlier if you can.

TERMS.

DEPOSIT.—The purchaser of anything advertised in the Exchange Column may remit the amount to us, and we only pay the money deposited on advice from the remitter. We charge a commission of 6*d.* on any transaction of £3 or less, or 1*s.* if above that amount.

Limited to the Advertisements of Surplus Stock, Shop Fittings, Apparatus, Photographic Goods, Books and Periodicals, Formulæ, Addresses Wanted, and Articles Wanted.

½d. *per word with name and address.* **1d.** *per word if we register the address and attach a number.*

No Advertisement inserted for less than 6d.

BOOKS AND PERIODICALS.

Second-hand Major and Minor books; perfect condition; cheap; list sent. Cherry, 12A Upper Belsize Terrace, Hampstead, N.W.

DRUGS AND CHEMICALS.

For Sale, 10 gallons compound syrup of trifolium, to clear at sacrifice; in good condition. 30/7, Office of the *C. & D.*

OPTICAL AND PHOTOGRAPHIC.

¼ **Lancaster** studio-camera and slide, portrait-lens (Waterhouse diaphragm), studio-stand, and 2 double dark-slides and carriers, nearly new. J. B. Thwaites, Crown Square, Penrith.

SHOP FITTINGS.

Through disposal of lease; complete, substantial, modern-style mahogany fittings, counters, cases, carboys, bottles, scales, lamp, &c.; low price. Hall, 130 High Road, Kilburn.

For Sale, 3 6-gallon and 2 10-gallon pear-shaped carboys, 1 large specie-jar; to be sold cheap, or exchange a 5-ft. counter-case or anything useful. Dale, 76 Meadow Street, Weston-super-Mare.

MISCELLANEOUS.

Postal and private tuition for pharmaceutical Preliminaries. Ford, 28 Daisy Road, Birmingham.

Three gross cycle-repair outfits containing best solution, 1897 valve, best patching canvas, &c., in best boxes, to be sold cheap. Chemical-works, 174 Neate Street, Camberwell.

Best offer gets them.—27 *Chemist and Druggists*, from December 1893 to May '94; 50 *British and Colonial Druggists*, 1890 to '93; 40 *Pharmaceutical Journals*, 1873, '74, and '93; also pill-machine, slate-bed, iron and brass sides. Walker, 7 Colston Parade, Redcliff, Bristol.

WANTED.

Set of tooth-forceps, cheap. S., 66 High Street, St. John's Wood.

O'Brien check-till, in good order. Baker, Chemist, Victoria Street.

Good balance for analytical work; price, and name of maker. Rayner, Cranswick, Hull.

Some good business-making summer lines, preferably on mutual risk terms. Full particulars to "Chemist," c/o Mardell, 95 Halley Road, Forest Gate.

Printed by Spottiswoode & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*April* 17, 1897.

ELEGANT TRUSSES

At Marvellous Prices.

LYNCH & CO., LIMITED, beg to call the attention of the Export and Shipping Trade to the extraordinary value of their Trusses—see Prices subjoined. All springs are guaranteed to be made of the best steel, properly forged and tempered, and covered with best materials. We invite all to send for samples for comparison.

FIG. 1.—SINGLE.

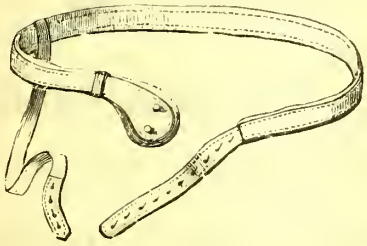


FIG. 2.—DOUBLE.

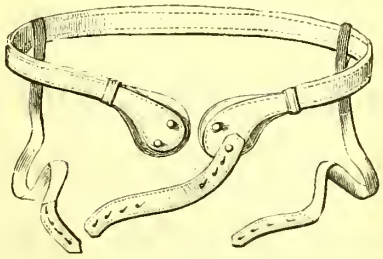


FIG. 3.—SINGLE.

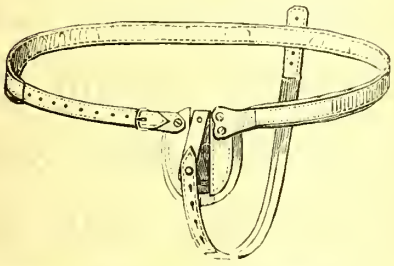
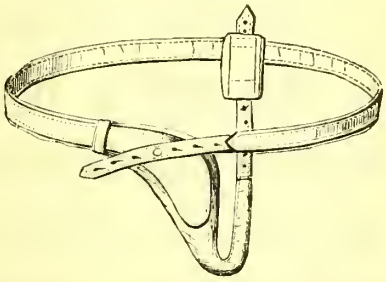


FIG. 4.—SINGLE.



1368A.	Fig. 1, Covered in Basil and Moleskin	per doz.	13/6
1369.	Fig. 1, „ Red Roan and Moleskin	„	16/0
1368A.	Fig. 2, „ Basil and Moleskin	„	24/0
1369.	Fig. 2, „ Red Roan and Moleskin	„	26/0
1375.	Fig. 3, Moc Main with Flexible Body Band and Lever Spring Pad	single each	6/6
1375.	Fig. 3, „ „ „ „	double „	10/6

(A CHEAPER QUALITY IS ALSO MADE IN QUANTITIES).

1381.	Fig. 4, Single Scrotal, covered Basil and Moleskin	per doz.	48/0
1381.	Fig. 4, Double „ „ „ „	„	84/0

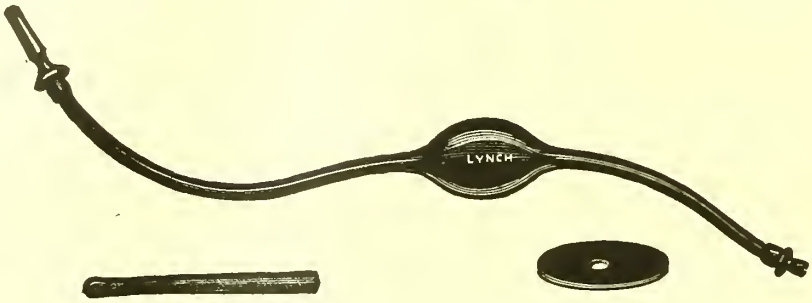
LESS USUAL DISCOUNT.

A Complete and Revised Catalogue of Sundries and Surgical Instruments sent free on application.

LYNCH & CO., LIMD., ALDERSGATE STREET, LONDON.

THE "MARVEL" ENEMA

Will not go hard in cold weather.



Under the above title we offer the most wonderful apparatus ever brought before the Trade. It is made of Sound Reliable Rubber, handsomely enamelled, black or red, is of elegant form, full sized barrel, full length tubes, fitted with bone rectum pipe, elastic gum vagina tube, and patent leather shield, and put up in a handsome oval box, with dome top, covered in cloth and leather, and priced 23/- per dozen.

LESS USUAL DISCOUNT.

Chemists will find this Enema worth their attention.

THERE'S MONEY IN IT!!

LYNCH & CO., Ltd., 192 Aldersgate St., London, E.C.

AWARDS—LONDON, 1881; VIENNA, 1883; CALCUTTA, 1884; CHICAGO, 1893.

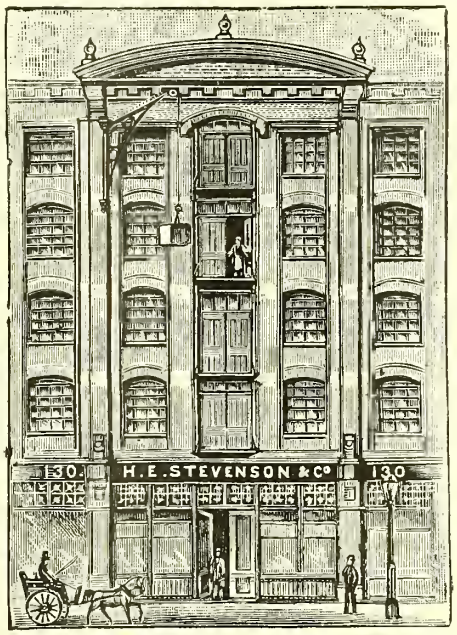
H. E. Stevenson & Co.

Successors to the General Drug Business
of Fletcher, Fletcher & Stevenson.

130 Southwark St., London.

Our extensive premises—six floors—are fully equipped with complete steam plant, and we have every facility for dealing expeditiously with large orders. We invite correspondence, especially from foreign buyers; it will cost nothing, and may be advantageous to you to receive our Drug Lists regularly.

English Tinctures.
„ Extracts.
Beechwood Creasote.
Cod Liver Oil. (Importers.)
Ether for Iceworks.
Zinc Oxide puriss.
Ext. Cocæ Miscible. } For Wines.
„ Cinchonæ „ }



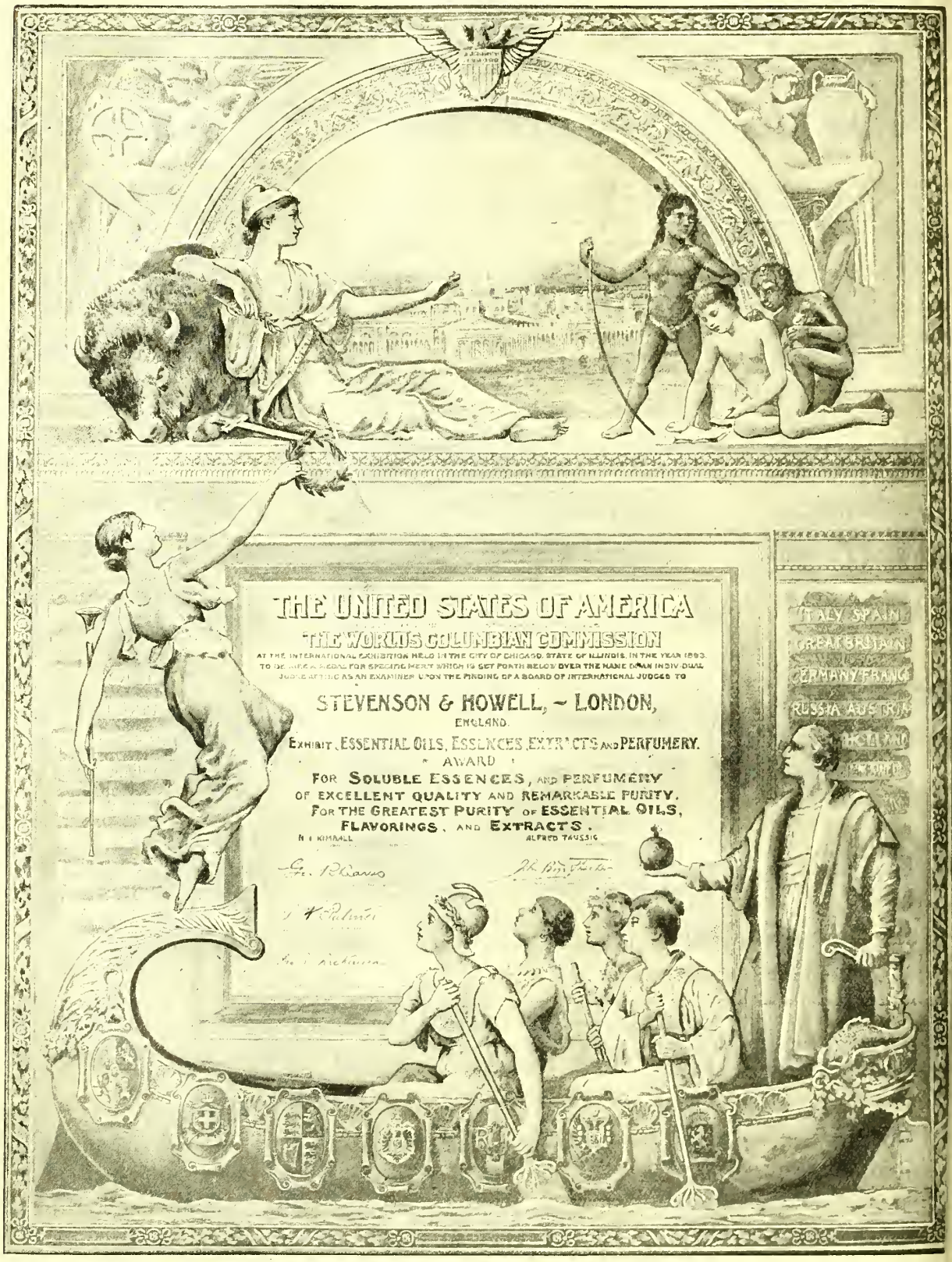
Bals. Copaiba. (Importers.)
Ol. Amygdal. Essent.
Saffron Valencia. (Importers.)
Morphia Salts.
Quinine Salts.
Eucalyptus Oil. (Importers.)
"Scale" Preparations.
Fruit Essences.
Cocaine Mur. puriss.

We have recently fitted up additional plant designed specially for the more expeditious output of such manufactures as

CASCARA EXTRACT,
SARSAPARILLA EXTRACT and DECOCTION,
AND ALL SIMILAR PREPARATIONS;

and are gradually replacing the old-fashioned steam-pans with a very ingenious apparatus (the subject of a patent), whereby the process of evaporation is immensely facilitated, and we are enabled to turn out a 100-gallon batch in certainly one-fourth the time that it formerly occupied under the old system, with a consequent saving in labour, &c., while the resulting product is of finer flavour

Facsimile of the Award to Messrs. STEVENSON & HOWELL, at the Chicago Exhibition.



STEVENSON & HOWELL'S

"SELECTED" OIL OF LEMON

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March 27, 1897.

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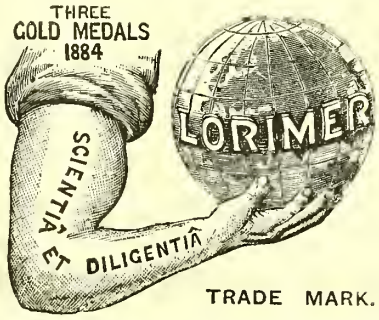

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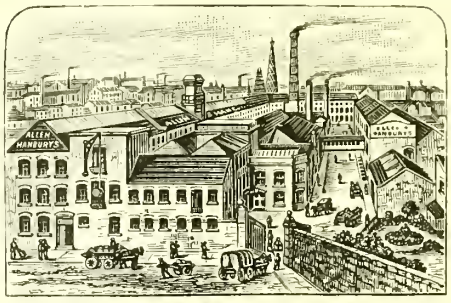

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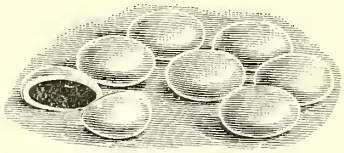
INSOLUBLE SALTS.—These are so manufactured as to rapidly disintegrate on coming in contact with water.

TABELLÆ FOR THE THROAT AND MOUTH are so compressed as to dissolve slowly, thus producing a steady flow of the drug over the affected parts.

NAUSEOUS DRUGS can be had **Sugar-coated.**



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	Per lb.
Ammon. bromid., gr. 5 and 10	4/-
,, chlorid., gr. 3 and 5	2/6
Ant. acid	4/-
	Per oz.
Antipyrin, gr. 5	3/6
	Per lb.
Bismuth carb., gr. 5	7/-
,, sod. et zingib.	7/-
,, subnitr., gr. 5	7/-
Carbo. lign., gr. 5 and 10	4/-
Cocainæ, gr. $\frac{1}{10}$	7/6
Conf. aromat., gr. 5	6/-
Euonymin, gr. $\frac{1}{4}$ and 1	18/-
Ferri sulph. exsic., gr. 3	6/-
Hydr. c. cret. and ipec. co. āā, gr. 1	6/-
Hydr. subchlor., gr. $\frac{1}{10}$ to 1	12/-
Lithia citr., gr. 5	10/-
	Per oz.
Papain, gr. 2	3/-
	Per lb.
Phenacetin, gr. 5	15/-
Potass. bic., gr. 5	1/6
,, brom., gr. 5	2/6
,, chlorat., gr. 5	1/2
,, ,, gr. 3, et boracis, gr. 2	1/2
,, citr., gr. 5	12/-
,, iodid., gr. 3 and 5	14/-
,, permang., gr. 1 and 3	6/-
Rhei et hydr. c. cret. āā $2\frac{1}{2}$	4/-
Santonini, gr. 1	10/
Soda mint	1/-
Sodii salicylat., gr. 5	7/6
Sulphonal, gr. 5	23/-
Sulph. comp., gr. 5	1/3
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	Per 1,000
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,, comp.	10/-
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Cascaræ ext., gr. 2	6/-
,, ,, comp. (first form)	8/-
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Eastonii (see Syr. ferri quin. et strych. phosph.)	
Ergotinum, gr. 3	22/-
Ferri et quin. cit., gr. 3	12/-
,, ,, gr. 5	16/-
Ferruginous, gr. 5	6/-
,, ,, et acid. arsenios (gr. $\frac{1}{40}$)	6/-
,, ,, et aloin (gr. $\frac{1}{10}$)	8/-
,, ,, et nucis vomicæ (gr. $\frac{1}{2}$)	6/-
,, ,, ,, (gr. $\frac{1}{8}$), et acid arsenios (gr. $\frac{1}{40}$)	8/-
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,, ,, gr. 2 and 3	60/-
Pepsinæ, gr. $2\frac{1}{2}$	16/-
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,, ,, gr. 3	11/-
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,, salicylatis, gr. 2	20/-
Rhei pil. comp., gr. 3 and 5	8/-
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Syr. ferri quin. et strych. phosph. (Easton)	12/-
Tonic (ferri quin. et strych. cit., gr. 3)	12/-
Warburg's (tinct.) ♏ 30	17/-

PRICES IN SCREW-CAPPED BOTTLES.

				Per doz.
Aloin and cascara	50	in bot.	@	7/3
,,	100	,,	,,	12/-
Ammon. chlor., gr. 3,	30	,,	,,	3/9
,, ,, 3,	100	,,	,,	6/6
Antipyrin, ,, $2\frac{1}{2}$,	24	,,	,,	6/6
,, ,, $2\frac{1}{2}$,	100	,,	,,	21/-
,, ,, 5,	24	,,	,,	11/-
,, ,, 5,	100	,,	,,	42/-
Casc. sagrada, ,, 2,	25	,,	,,	3/10
,, ,, 2,	100	,,	,,	10/-
Digestive, ,, 6,	25	,,	,,	7/-
,, ,, 6,	100	,,	,,	12/-
Pepsine, ,, $2\frac{1}{2}$,	25	,,	,,	7/-
Phenacetin, ,, 5,	25	,,	,,	7/-
,, ,, 5,	100	,,	,,	18/6
Pot. bicarb., ,, 5,	40	,,	,,	3/6
,, ,, 5,	100	,,	,,	5/-
Pot. chlor., ,, 5,	40	,,	,,	3/10
,, ,, 5,	100	,,	,,	5/-
Quin. bisulph., ,, $\frac{1}{2}$,	50	,,	,,	5/-
,, ,, $\frac{1}{2}$,	100	,,	,,	7/-
,, ,, 1,	36	,,	,,	5/-
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,, ,, 2,	24	,,	,,	5/-
,, ,, 2,	100	,,	,,	10/-
,, ,, 3,	24	,,	,,	6/-
,, ,, 3,	100	,,	,,	13/6
,, ,, 5,	24	,,	,,	7/3
,, ,, 5,	100	,,	,,	20/6
Soda bicarb., ,, 5,	40	,,	,,	3/6
,, ,, 5,	100	,,	,,	5/-
Soda mint, ,, 5,	30	,,		3/6
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Sulphonal, ,, 5,	25	,,	,,	9/-
,, ,, 5,	100	,,	,,	28/-
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CAMPHOR & MENTHOL	JUNIPER TAR	SALICYLIC ACID & SULPHUR	THYMOL
CAMPHOR & PERUVIAN BALSAM	MENTHOL & EUCALYPTUS	SUBLIMATE	WHITE PRECIPITATE

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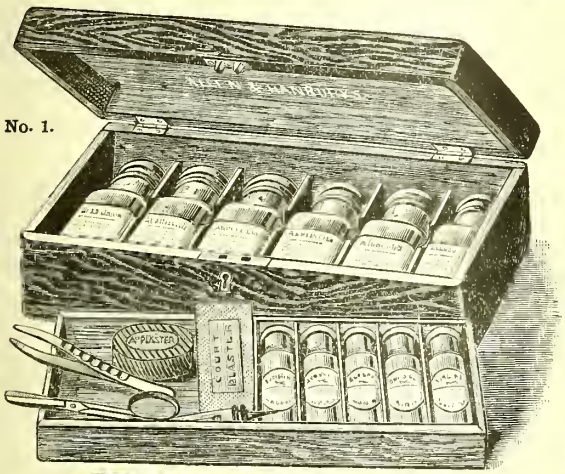

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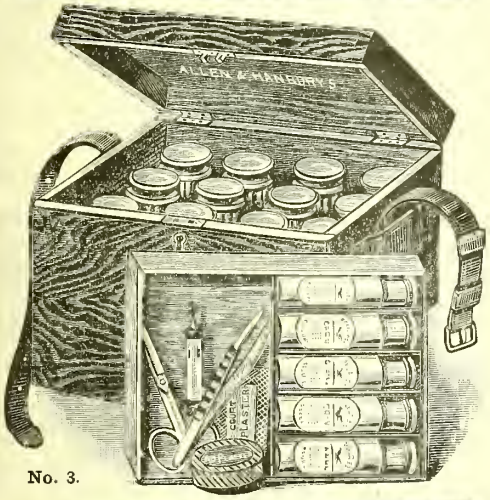

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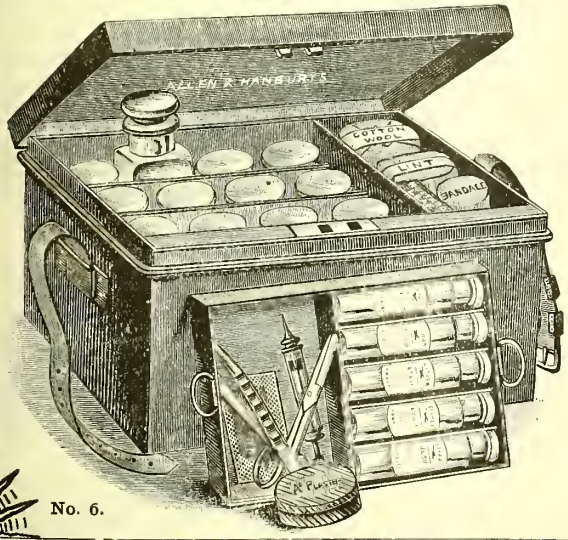

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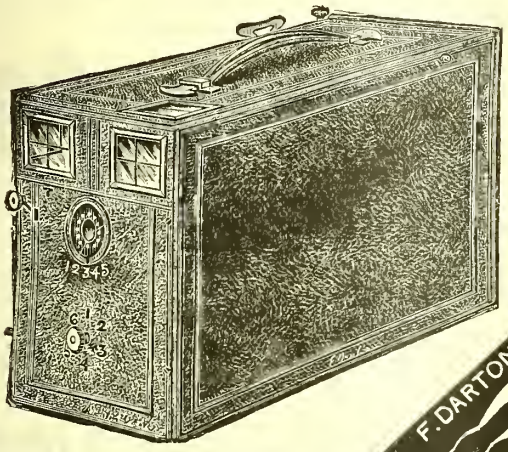

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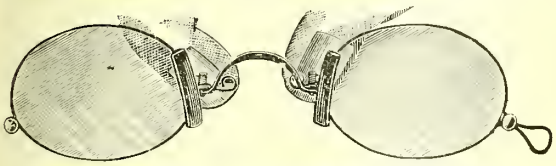

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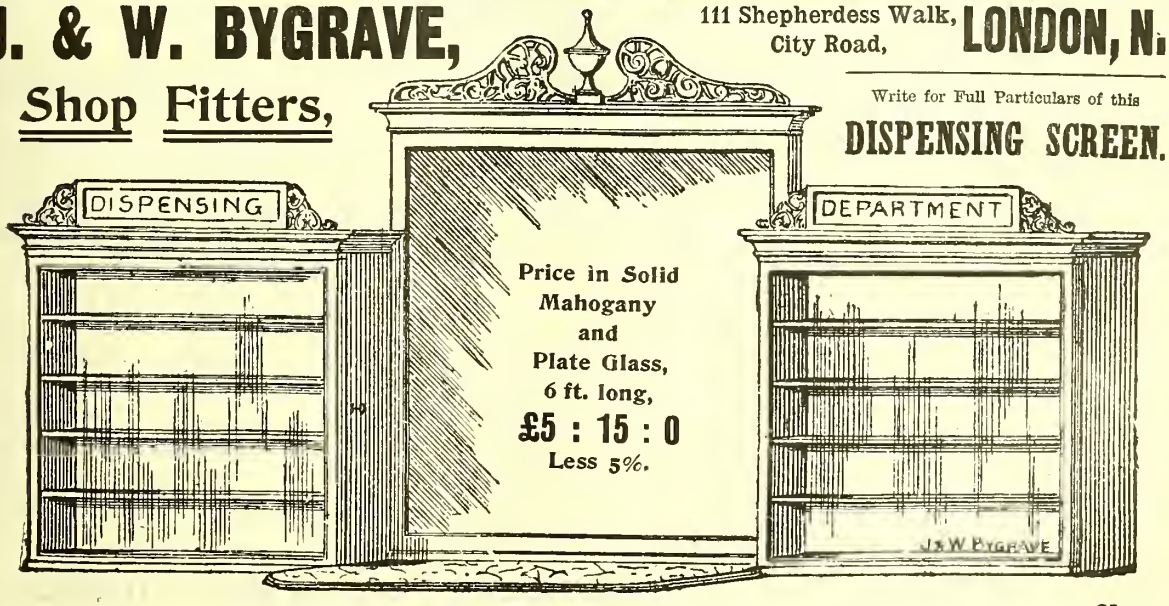

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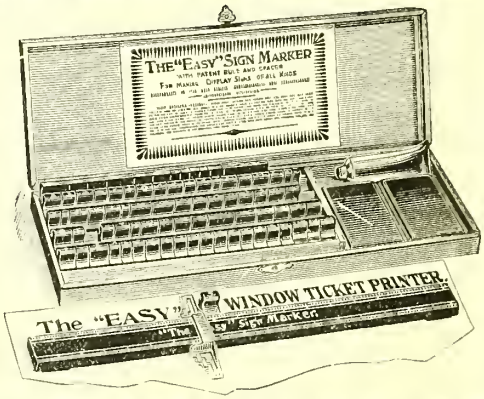

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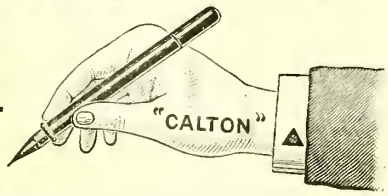

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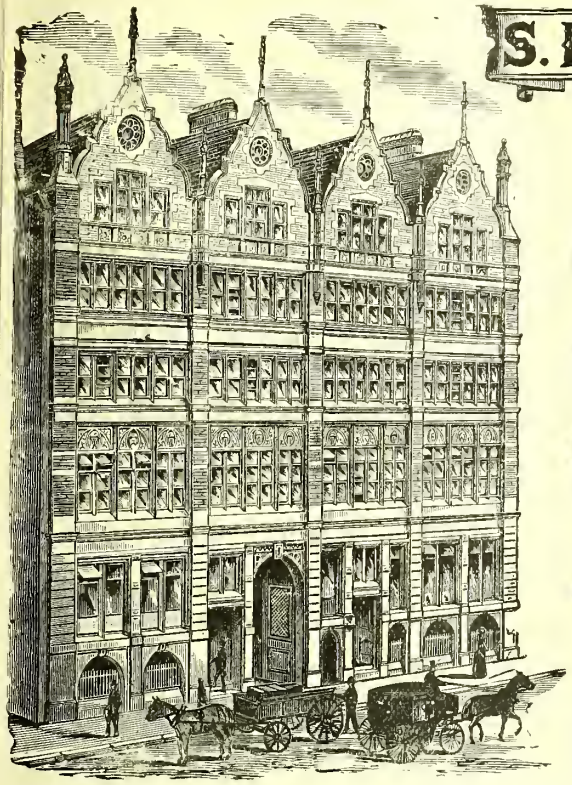

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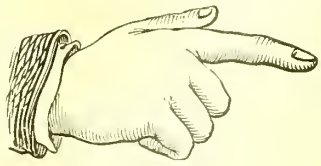

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Honey.	Almond and Glycerine.
Elder Flower.	White Rose and Cucumber.

2d. PER TABLET. TRADE PRICE, 18/- per gross.

2d.

BLONDEAU OLD ENGLISH TOILET SOAPS. 2d.

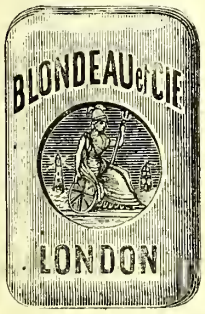
(ROUND TABLETS.)

Lily.	Honey.
Almond and Glycerine.	Oatmeal.
Rose.	Elder Flower.
White Rose and Cucumber.	Brown Windsor.

Cucumber and Glycerine.

TRADE PRICE, 18/- per gross.

2d.



BLONDEAU CHOICE TOILET SOAPS.

DELICATELY PERFUMED.

Packed in 6-tablet boxes, assorted.

RETAIL PRICE, 2d. per tablet.

TRADE PRICE, 20/- per gross tablets.

6d.

PREMIER VINOLIA DENTIFRICE.

Keeps the teeth ivory white, the breath sweet, and the gums strong.

In Metal Box, 6d. and 1/-.
In Glass bottle, 6d.

TRADE PRICES: In Metal Boxes, 3/3 and 6/- per dozen; in Glass Bottles, 3/3 per dozen.

2/6

VINOLIA DENTIFRICE.

Aromatic, Tonic, Refreshing, Preservative.

Entirely free from the least trace of grittiness or alkalinity.

ENGLISH	2/6, 7/6, 13/6
AMERICAN..	1/6, 4/6, 7/6

TRADE PRICES:

ENGLISH	22/10, 68/6, 123/-
AMERICAN..	13 9, 41/-, 68/6

per dozen.

1/-

VINOLIA LIQUID DENTIFRICE.

Whitens the teeth beautifully. Soothing to tender gums and sensitive teeth.

1/- and 1/9.

TRADE PRICES, 8/- and 14/- per dozen.

4/6

LAIT VINOLIA.

FOR THE COMPLEXION.
(Non-Medicinal.)

Keeps the skin beautifully soft and of a velvety appearance.

IN ELEGANT PORCELAIN VASE, 4/6.

TRADE PRICE, per dozen, 41/-.

3/6

VINOLIA POMADE.

Natural to the Hair and Scalp.
Imparts a fine silkiness to the hair.

IN WHITE OPAL VASE, 2/-.
IN ANTIQUE PORCELAIN VASE, 3/6.

TRADE PRICES, per dozen 16/- and 32/-

The above Trade Prices are subject to usual Discounts.

Continued on next page.

VINOLIA PRICE LIST.

6d.

VINOLIA SHAVING SOAP.

(STICKS.)

Vinolia Shaving Soap gives a profuse creamy lather free from excess of alkali, and can be recommended as a shaving soap for the most sensitive skin.

PREMIER	.. ..	6d.
TOILET	.. ..	1/-, 1/6, 2/6
VESTAL	.. ..	2/-

TRADE PRICES, per dozen,
Premier, 3/6; Toilet, 9/2, 13/9, 22/10; Vestal, 18/4.

1/-

VINOLIA SHAVING SOAP.

Causes no blotches under the chin. Makes shaving a pleasnre.

PREMIER (Flat Cakes)	..	1/-
TOILET " "	..	2/-
VESTAL " "	..	2/6

TRADE PRICES, per dozen,
Premier, 7/-; Toilet, 18/4, and Vestal, 22/10.

1/-

VINOLIA SHAVING FOAM.

CREAMY. REFRESHING.
PURE. EMOLLIENT.

Vinolia Shaving Foam, while affording a clean shave, leaves the skin soft and agreeably cool.

In Collapsable Tubes—

TOILET	.. .. ..	1/-, 1/6
VESTAL	.. .. ..	2/6

TRADE PRICES, per dozen,
Toilet, 9/2, 13/9; Vestal, 22/10.

1/-

VINOLIA SHAVING VASE,

And a CAKE of

PREMIER VINOLIA SHAVING SOAP.

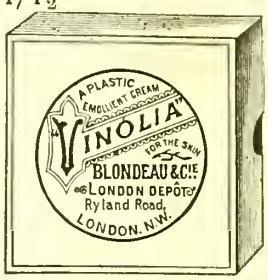
TRADE PRICE .. 7/- per dozen.

VINOLIA HAND-PAINTED SHAVING VASE

And a Cake of VINOLIA TOILET SHAVING SOAP.

RETAIL PRICE, with Lid, 3/6. TRADE PRICE, per dozen, 32/-
" " without Lid, 3/-. " " " " 27/6

1/1½



VINOLIA CREAM.

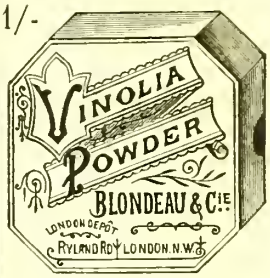
FOR ITCHING, FACE SPOTS, AND THE SKIN IN HEALTH AND DISEASE.

The *BABY* reports: "For acne spots on the face, and particularly for eczema, it is undoubtedly efficacious, frequently healing eruptions, and removing pimples in a few days."

It relieves Itching at once.

1/1½, 1/9, 3/6, and 6/- per box.
TRADE PRICES, 10/8, 16/9. 33/4, and 57/8 per dozen.

1/-



VINOLIA POWDER.

FOR REDNESS, ROUGHNESS, TOILET, NURSERY, &c.

Does not block up the pores of the skin.

In White, Pink, and Cream Tints.
1/-, 1/9, 3/6, and 6/- per box.
TRADE PRICES—
9/2, 16/-, 32/-, and 54/9 per dozen.

6d.

LYPSYL.

(FOR THE LIPS).

MADE IN ROSE-RED AND WHITE TINTS.

A Coraline Emollient for Dry, Rough, Cracked, or Pallid Lips.

In Silver Metal Tubes .. .. .. 6d. and 1/-.
TRADE PRICES, per dozen, 4/- and 8/-.

4d.

VINOLIA SACHETS.

DELICATELY PERFUMED IN 16 ODOURS.

White Rose.	Violet.	Ylang Ylang.
Jockey Club.	Ob pre.	Violette de Parme.
Opoponax.	Patchouli.	E s. Bouqnet.
Stephanotis.	White Heliotrope.	Rondeletia.
Vinolia Bouquet.	Frangipanni.	Sidonia du Japon.
Lavender.		

These are in elegant cream envelopes, printed in soft tints and bearing a small artistic vi nette in green.

4d. and 8d. TRADE PRICES, per dozen, 2/6 and 4/6.

The above Trade Prices are subject to usual Discounts.

Continued on next page.

VINOLIA PRICE LIST.

6d.

VINOLIA VIOLET POWDER.

SANITARY. ANTISEPTIC. SOOTHING.

Specially prepared for Toilet and Nursery use.

In Elegantly Wrappered ¼-lb. Tins, 6*d*.

TRADE PRICE, per dozen, 3/4.

1/-

VINOLIA BRILLIANTINE.

Is distinguished from the old-fashioned Brilliantines in which the oil floats on the surface.

Does not leave the hair greasy and sticky.

FOR THE HAIR AND FOR THE MOUSTACHE.

1/-, 2/-, 3/6.

TRADE PRICES, per dozen, 8/-, 16/-, 28/-.

1/6

VINOLIA EAU DE COLOGNE.

FRAGRANT, REFRESHING.

As fine as can possibly be made.

1/6, 2/6, 3/6, 6/6.

TRADE PRICES, per dozen, 9/6, 17/3, 27/3, and 55/-.

1/6

VINOLIA LAVENDER WATER.

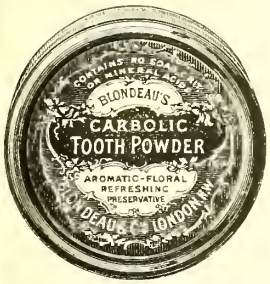
NATURAL AND VERY LASTING.

Contains the finest Essential Oils, and being concentrated is the most economical.

1/6, 2/6, 4/6.

TRADE PRICES, per dozen, 9/6, 17/3, and 30/-.

6d.



BLONDEAU CARBOLIC TOOTH POWDER.

Contains no grit or mineral acids.

In artistic round metal box, 6*d*.

TRADE PRICE, per dozen, 3/3.

6d.

VINOLIA COSMETIC

FOR THE MOUSTACHE.

Strengthens the Hair, and keeps it from becoming rusty, bristly or untidy.

IN FOUR KINDS—WHITE, BLONDE, BROWN, BLACK, 6*d*. and 1*s*.

TRADE PRICES, per dozen, 2/8 and 5/4.

The following odours can be supplied:—Heliotrope, Jasmin, Osmedia, Vanille, Violet, Rose.

6d.

BLONDEAU PERFUMES.

CONCENTRATED, DELICATE, PURE.
In 35 kinds.

As we have as great facilities as any firm in the world for buying and testing scents, we respectfully call attention to our Concentrated Perfumes, thirty-five in all.

*Vinolia Bouquet.	Hyacinth.
*Jequilla.	White Lilac.
*Marequil.	White Heliotrope.
*Losaria.	Musk.
Wallflower.	Rondeletia.
Millefleur.	Ambergris.
Musk Rose.	Narcissus.
Honeysuckle.	Stephanotis.
Jasmin.	Frangipanni.
Wood Violet.	Patchouli.
Ess. Bouquet.	Opoponax.
Maréchal Niel.	Ylang Ylang.
Jockey Club.	Violette de Parme.
White Rose.	Chypre.
New Mown Hay.	Mignonette.
Lily of the Valley.	Violet.
Amaryllis.	Clematis.

*Peau d'Espagne.

* These 5 Perfumes are not supplied in the 6*d*. quality.

6*d*., 1/3, 1/9, 3/-, 5/-, and 9/-, and in Cut Glass Bottles, 1/9.

TRADE PRICES, 3/6, 10/-, 14/-, 24/-, 40/-, and 72/- per dozen. Cut Glass Bottles, 14/- per dozen.

The Blondeau Perfumes are also supplied in Bulk in ¼, ½, and 1-lb. Bottles. Prices on application.

1/

The above Trade Prices are Subject to usual Discounts.

BLONDEAU ET CIE., Malden Crescent, LONDON, N.W.

UNRIVALLED "OVALINE" UNRIVALLED

THE ONLY SOAP

PREPARED WITH YOLK OF EGG.

Advertised Price.		A Profit of 33%	A Profit of	Advertised Price.	
4D.	per Tablet			1S.	per Box
6D.	,,			1S. 6D.	,,
8	,,			2S.	,,

Send for Sample Boxes. Showcards, &c., freely distributed.

PEACOCK'S OVALINE SOAP CO., Limited,
145 Queen Victoria Street, E.C.

'HYPATIA'

THE NEW TOILET SOAP.

HUGGINS' SOAP WORKS, Lim., are now appointing Agents amongst respectable Chemists in all the leading towns in the United Kingdom.

Unprecedented favourable terms to the first Three Hundred appointed.

Apply, HUGGINS' SOAP WORKS, LIM.
GRAVESEND, KENT.

TRY **COOK'S** TRY

PURE TOILET SOAPS,

ALWAYS PLEASE BUYERS,

AND

CAN BE SOLD TO PAY

A SATISFACTORY PROFIT

"SAVON DE LUXE," *the most luxurious Soap.* **"RIVIERA,"** *a genuine Superfatted Soap.* **"COLD CREAM AND OATMEAL,"** *for the nursery.* **"PRINCESS" TABLETS,** *for visitors' rooms.* **"HYGIENIC" TOOTH SOAP** *to prevent decay, and to keep off toothache.* **"GLYCERINE AND CUCUMBER," AND "FLORAL" TABLETS, "ANTISEPTIC" & CARBOLIC SOAPS**

of guaranteed strength, and every description of high-priced or low-priced soaps, all of which are cheap on account of quality and saleableness.

Specialities made to Chemists' Own Recipes.

PRICE LISTS AND SAMPLES ON APPLICATION TO

EDWARD COOK & CO., LONDON.

ESTABLISHED OVER 100 YEARS.

The above Soaps can be obtained from Messrs. S. MAW, SON & THOMPSON, LONDON.

SPRING CLEANING!!!

EVERYONE WILL REQUIRE

MAYPOLE SOAP

(DYES ANY COLOUR.)

The Season can be fairly said to have started.

TO THE RETAIL TRADE.

Anyone requiring Show Cards or other Advertising Matter for Maypole Soap, should address a letter to the

Advertising Manager,

MAYPOLE COMPANY, LTD.

98 and 99 HIGH HOLBORN.

Mention "The Chemist and Druggist."

Messrs. D. & W. GIBBS

(LIMITED),

City Soap Works, LONDON,

Offices and Showrooms: 16 FINSBURY CIRCUS,

TRADE D G W MARK.

REGISTERED.

DESIRE TO CALL ATTENTION TO THE FOLLOWING LIST OF SPECIALITIES AND NOVELTIES—

COLD CREAM TABLET

(Super Fatted).

A spécialité Toilet Soap, most delicately perfumed, and combined with a salve possessing all the well-known beneficial effects of Cold Cream. May be safely used in cases where other soaps would be inadmissible.

Messrs. D. & W. Gibbs have also introduced a special **"Otto Bouquet"** quality for the use of those desiring a highly-perfumed Soap, and likewise a **"Medicated"** quality, into which the refreshing antiseptic Pine Oil has been introduced in place of any perfume.

All the above are protected by our registered Trade Mark, and are put up in solid and handsome boxes containing three Tablets (each Tablet in cartoon wrapper). Can be had also in smaller sizes.

The same Soap is also specially prepared for Shaving Purposes, and gives a creamy and lasting lather, which renders shaving very easy and refreshing. Put up in convenient metal cases.

SAVON d'ESTE.

A superb Soap of 40 years' unrivalled reputation. Scented with the costly and refreshing perfume of Orange Flowers. Each Tablet in handsome and convenient case.

HARD WATER TABLETS.

A special basis for use in hard waters. Artistically inlaid in red and blue, put up in ¼-doz. boxes.

TREBLE-SCENTED MUSK OLD BROWN WINDSOR

This Soap has gained for itself a special reputation, and stands unrivalled among high-class Soaps for its lasting fragrance and splendid quality. Put up in ¼-dozen boxes, each Tablet in handsome wrapper.

The following well-known high-class Soaps have recently been improved in style, perfume, and general get-up, and are now offered with confidence to the public. All these Soaps are now packed in handsome fancy ¼-dozen hinge boxes with expensive label, and each Tablet is wrapped with a pretty wrapper. These Soaps can now be had in two sizes.

This series includes—

Triple - Scented Violet. — Giving a permanent and delicate aroma of the flower. Can be had coloured or white.

Bloom Lavender. — Recommended for its sanitary as well as for its pleasant and refreshing properties. Coloured or white.

Double - Scented White Rose.—Sweet and Fragrant.

Triple - Scented Sandal Wood.—Most enduring perfume.

Triple-Scented Glycerine.—A delicate blend.

Triple - Scented Almond.—The perfume of pure Bitter Almonds.

Triple-Scented Assorted.—Three of any of the above kinds.

THE "REAL" SERIES.

NOTICE.—In view of troubles which have lately arisen under the Drugs Act, Chemists are advised to protect themselves by purchasing the following Soaps, all of which are guaranteed to contain the ingredients which their name would imply, and are protected by our Registered Trade Mark on Wrapper as above.

High-class genuine Soaps, nicely wrapped, and put up in ¼-dozen boxes. Includes—

Real Honey and Sulphur.—Excellent for the complexion. Contains both honey and sulphur.

Real Carbolic.—A powerful disinfectant, suitable for sick room.

Real Oatmeal.—A genuine oatmeal Soap.

Real O.B. Windsor.—A nice Soap.

Real Coal Tar.—A refreshing antiseptic Toilet Soap.

Also in like style and price:—

Glycerine and Cucumber and White Rose and Cucumber.

Transparent Soaps of all kinds.

Medicated Soaps of all kinds, including the Special Series of ten varieties of guaranteed formula, in wrapped Tablets. Special list on application.

Every other kind of Soap, including **Tooth Soap, Dog Soap, Plate Soap,** and **Carpet Soap,** supplied. Also chemically pure **Glycerine, Lavender Water,** and other sundries may be obtained through any respectable Chemist, or Wholesale only from **City Soap Works, London,** of whom full particulars can also be had of all varieties of hard and soft Soaps, including their special Reg. Brands —Composite Household Soap and B.S.M. Soft Soap, &c., &c.

Diploma of Honour. Madrid, 1890.

Capetown, 1878.

London. 1878.

Amsterdam. 1883.

International Health, 1884.

Brussels, 1889.

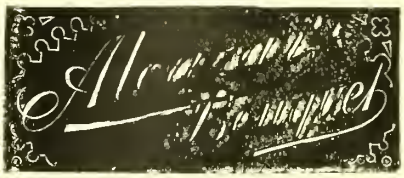
Madrid. 1890.

Tunis, 1891.

Diploma of Honour Brussels, 1890

JAMES SINCLAIR & SON,

SOUTHWARK, LONDON.



A DELIGHTFULLY PERFUMED SOAP

Made of selected materials. Superfatted and non-alkaline. In high repute among the Nobility and Aristocracy in England and the Colonies.

In Boxes of Three Tablets, per doz. boxes 12/-.

VELOURS or VELVET SOAP.

Balsamic and Musk Odour; elegantly wrapped; Purest Soap; in Boxes of three Tablets, per doz. boxes 9/-.

TREBLE-MILLED Toilet Soap.

In Varieties—Windsor, Rose, Almond, Glycerine and Cucumber, Elder-flower, Violet, Heliotrope, Cold Cream, Opoponax, Honey, Cold Cream and Honey, in boxes of three tablets, per doz. 6/-.
In boxes of 12 tablets . . . . . 22/-.

MEDICATED SOAPS.

Coal Tar, Carbolic, Camphor, Camphor and Carbolic, Juniper Tar and Borax Soap, in boxes of 3 tablets, per doz. boxes, 6/.

Special Brands from Special Formulas prepared with greatest care.

TOILET SOAPS IN VARIOUS SHAPED TABLETS.

FLORAL, HONEY, ROSE, WINDSOR, ALMOND, GLYCERINE, LAVENDER, &c., &c.

Tablets, 4, 6, or 6 to the pound, in 7 lb. and 14-lb. boxes, per cwt. **44/-.**
ditto, cheaper, less perfume - - " " **38/-.**

TRANSPARENT SOAPS.

Orange, Lemon, or Cedar, oval tablets, per gross 10/-
do. do., smaller size, do. 8/-

SPECIAL SOAPS FOR EXPORT TRADE FROM 28/-

PETROLEUM JELLY, pure white, in tins about 8 lbs., 56/- per cwt; 28 lbs., 50/- per cwt.; in barrels about 4 cwt., 46/- per cwt. Ditto, Yellow, tins 30/- per cwt.; 28 lbs., 28/- per cwt.; in barrels about 4 cwt., 24/- per cwt.

We will spare no effort to secure Business. A Trial Solicited.

CROWN PERFUMERY COMPANY.

CAUTION.

The Crown Perfumery Company are compelled, owing to recent infringements of their well-known trade mark and to imitations of their well-known CROWN-STOPPERED BOTTLE and LABELS in which their ***"INVIGORATING LAVENDER SALTS"*** are offered for sale, to caution the public, and especially dealers in perfumery, against infringing their said trade mark and buying or selling any "Invigorating Lavender Salts" (unless made by the Crown Perfumery Company), which are sold in Bottles that imitate or only colourably differ from the appearance of the Crown Perfumery Company's bottles.

In an action

In the High Court of Justice, 1896.—T. No. 152.

Chancery Division,

MR. JUSTICE ROMER.

BETWEEN The Crown Perfumery Company - - *Plaintiffs*

AND

Alfred George Kenderdine - - - - *Defendant.*

The Defendant, after having been heard by his solicitor on the 17th February, 1897, submitted to an injunction, with costs, restraining him from infringing the said trade mark, and from imitating the get-up or general appearance of the Plaintiffs' bottles of smelling salts and the labels thereon. And it was ordered that the Defendant should deliver up or destroy, in the presence of an agent of the Plaintiffs, all labels which offended against the injunction above referred to, and also pay the costs of the action.

The Crown Perfumery Company have instructed their Solicitors to take immediate proceedings against all persons infringing the said trade mark or the said labels or bottles.

Arsenical Soap.

Jameson's.

The Proprietor of the above preparation calls the attention of the Chemists of the United Kingdom to the decision given at Brentford, on Saturday, 12th December, 1896, in which it was held that the presence of Arsenic, even the minutest quantity, was sufficient to exempt dealers from prosecution under the Food and Drugs' Act.

In the manufacture of **Jameson's Arsenical Complexion Soap** the machinery is so perfect that not only is Arsenic to be found in each tablet, but severe testing has shown that the percentage is also uniform, and consequently each and every tablet may be sold with the utmost assurance; and in order to make the trade feel as confident as does the Proprietor, he takes this opportunity of informing them that he will in every instance defend them and indemnify them should action (which after the judgment quoted is not very likely) be taken against them; and, further, he is prepared to give them a warranty withe delivery of the Soap, which the trade has only to show to the authori s to immediately quash the indictment.

It is not for the Proprietor of **Jameson's Arsenical Complexion Soap** to instruct the trade as to the manner in which it shall conduct its business, but he takes this opportunity of declaring that he will, after this notice, defend any Chemist against prosecution under the Pharmacy Act, provided he has himself fulfilled the statutory obligations.

Please note that holders of **Jameson's Arsenical Complexion Soap** are requested to send a Post Card notifying the same, and a warranty, which, as before stated, is a certain protection against prosecution, will, with a supply of labels for complying with the Pharmacy Act, be forwarded per return.

W. JAMESON, 92 Newington Butts, London, S.E.

GUARANTEED TO CONTAIN ARSENIC.

H. P. TRUEFITT'S SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-, 10/6, 21/-

Egg Julep, 2/-, 4/-

CONCENTRATED Egg Julep, 2/6, 5/-, 10/6.

Golden Fluid, 10/6, 21/-

LUXURON, 1/6.

&c.

EUCHRISMA. Combines in one clear Fluid every valuable Component both of a Hair Grease and Wash. 3/6, 5/-, 10/6, 21/-

EAU RACINE. For renewing the original colour of Grey Hair; superior to all other Restorers, being perfectly simple in its Components. Price 6/-

Stimulating Lotion, 5/-, 10/6.

Astringent and Tonic Lotion, 5/-, 10/6.

Quinine and Arnica Hair Wash, 3/6, 5/-, 10/6, 21/-

Arnica Wash, 3/6, 5/-, 10/6.

&c.

An elegant Preparation for the Hair and Beard. Price 2/6, 3/6, 5/-, 10/6, 21/-

BRILLANTINE.

H. P. TRUEFITT'S TONIC TOOTH BRUSH

(BY ROYAL LETTERS PATENT.)

PRICE ONE SHILLING.

20 & 21 Burlington Arcade; 13 & 14 Old Bond St., London

Petroleum Emulsion

with Hypophosphites.

Of the colour and consistence of Cream. Unsweetened and very palatable. Prepared with a specially purified Petroleum Jelly. Price 1/3 per lb.

C. R. HARKER, STAGG & MORGAN,
Manufacturers of Pharmaceutical Preparations,
15 Laurence Pountney Lane, LONDON, E.C.

CORBYN'S

QUADRUPLE and TRIPLE

NATURAL

EXTRACTS.

PERFUMES.

Toilet Waters. Sachet Powder.

CORBYN, STACEY & CO.

Pharmaceutical Laboratory and Drug Warehouses { 300 HIGH HOLBORN. 61 and 62 EAGLE STREET.
Perfume Laboratory and Warehouse - - 7 FISHER STREET.
Analytical Laboratory - - - - - - 8 FISHER STREET.

All Letters should be addressed to the HEAD OFFICE—

22 GREAT ST. HELEN'S, LONDON, E.C.

Telegraphic Address: "COLOCYNTH LONDON." TELEPHONE No. 4033.

SHADEINE.

For Colouring the Hair. Sold in 6 tints, one liquid.

6*d*. Sample size .. .. 4/- per doz.
3/6 Large „ .. .. 28/- „
10/6 Extra „ .. .. 84/- „

SAMPLES Supplied to the Trade on pretty hanging Showcards at 4/- per doz.

☛ **This Popular Article is Largely Advertised, and kept at all Wholesale Houses.**

Agents Wanted.

[COPYRIGHT]

ALEXANDRE, 30 WESTBOURNE GROVE, LONDON.

The Best Hair Remover.

DEPILENE

Reaches the Root.

Removes superfluous hair without injury to the skin. Speedy and sure. No mixing. Dispenses with Electrolysis.

To be obtained, elegantly prepared, and packed free from observation, with directions, post free 4/3 per bottle, of

THE DEPILENE CO.
QUEEN'S FERRY, FLINTSHIRE,
Or of **MARSHALL & CO.**
30 Newgate St, London, E.C.

Special Terms to Chemists.

CARMICHAEL'S GENUINE
AMERICAN

MANICURE PREPARATIONS

A FULL 6d. LINE (miniature sizes of his regular Goods). You have only to show them, **THEIR SALE IS ASSURED**, and will be **AS GOOD** a line as his now **FAMOUS** Violet **AMULETS**, including the novel production "**AMBERLAVE**," a **FLUID TOILET SOAP.**

All at 48/- per gross.

FROM ALL WHOLESALE AND EXPORTING HOUSES

Nail Files, Emery Boards, Bleachine, Cleansing Powder, Orange Wood Sticks, Cosmetic Brush, Cosmetic Aurora, Agate Nail Powder, Oriental Nail Varnish, Suc de Mimosa, Cuti Cream, and Amberlave.

BRECKNELL'S SKIN SOAP.

PRIZE MEDAL.

Recommended by Eminent Medical Men.

Unscented, yet Sweet as a Rose.

Although low in price, it ranks with high-class soaps, and is altogether the best extant for producing a Clear and Healthy Skin.

☛ The longer it is kept the more it improves and increases in value

LIBERAL TERMS TO THE TRADE.

BRECKNELL, TURNER & SONS, LIMITED,
To Her Majesty, &c., &c.
31 HAYMARKET, LONDON.
ESTABLISHED 1862.

LONDON, W.,

13 & 14 OLD Bond Street.

PURITY! AND EXCELLENCE!

H. P. TRUEFITT

Limited.

MANUFACTURERS OF

Specialities for the Hair

AND WHOLESALE PERFUMERS.

DO YOU STOCK OUR GOODS?

IF NOT, SEND TRIAL ORDER, it will lead to GOOD BUSINESS.

THEY WILL PAY YOU. THEY ARE RELIABLE AND WELL KNOWN.

THEY HAVE STOOD THE TEST OF YEARS.

THEY ARE ACKNOWLEDGED TO BE THE BEST.

Brillantine Sizes 2/6 3/6 5/ 10/6
Doz. 20/- 28/- 40/- 84/-

1. **Euchrisma** combines in one clear fluid every valuable component, both of a Hair Grease and Wash .. sizes 3/6 5/- 10/6 21/-
per doz. 28/- 40/- 84/- 168/-

2. **Quinine and Arnica Hair Wash** contains in these two ingredients the elements of regeneration necessary in the great majority of cases from loss of hair .. .. sizes 3/6 5/- 10/6
per doz. 28/- 40/- 84/-

3. **Floral Extract**: a delightful preparation for cleansing the Hair and imparting a beautiful softness and fragrance.
sizes 3/6 5/- 10/6
per doz. 28/- 40/- 84/-

6. **Melliflora**: a combination of Pure Honey with Extract of Flowers; is strongly recommended as a choice Dressing for the Hair.
sizes 2/6 3/6 5/- 10/6
per doz. 20/- 28/- 40/- 84/-

7. **Egg Julep.** This simple preparation of the Yolk of Egg is far superior to the spirituous tinctures generally sold under the title of Hair Washes .. .. sizes 2/- 4/-
per doz. 16/- 32/-

8. **Concentrated Egg Julep**, in Toilet Jars. Will keep good any length of time and in any climate .. ..sizes 2/6 5/- 10/6
per doz. 20/- 40/- 84/-

9. **The Stimulating Lotion.** This Lotion is recommended by Mr. Truefitt in cases where the Hair has fallen off after illness, &c.
sizes 5/- 10/6
per doz. 40/- 84/-

10. **The Astringent and Tonic Lotion.**
size 5/- 10/6; per doz. 40/- 84/-

Dyes, Stains, Cosmetiques, &c., &c.

PERFUMES, New and Choice Variety, from 3/6 upwards. The New Coloured Deliciously Perfumed Salts.—A Special Line.

TRUEFITT'S AMERICAN SPECIALITIES.

SEA FOAM OF COLOMBIA'S SHORE possesses all the refreshing elements of the Salt Sea Spray, and infuses new vitality into the hair.

AMUR-IKAN.—A Real Refresher for the Hair.—There is a condition of the hair known to American specialists as "tired hair." It has a dull, jaded appearance, which is not due to disease, but to temporary cause, excitement, worry, late hours, &c. An application of AMUR-IKAN to hair in this condition is what a pick-me-up is to the system, a real refresher and reviver.

ELEUSINE.—A cooling sedative Lotion for use after Shaving. All irritation caused by the razor is at once allayed, and a firm healthful tone imparted to the skin.

SEND FOR PRICE LISTS.

To facilitate the despatch of small orders, H. P T. has made Special Terms with the following Wholesale Houses, of whom all the Specialities in this List can be purchased at the same prices as if obtained direct from H. P. TRUEFITT.

LONDON WHOLESALE AGENTS.

Barclay & Sons (Lim.), 95 Farringdon St., E.C.
Burgoyne, Burbidges & Co., 16 Coleman St., E.C.
Barron, Harveys & Co., Giltspur Street, E.C.
Dakin Brothers, 2 and 3 Creechurch Lane, E.C.
W. Edwards & Son, 157 Queen Victoria Street.
Evans, Lescher & Webb, 60 Bartholomew Close, E.C.
Hodgkinson, Prestons & King, 68 Leadenhall St.
Hodgkinson, Treacher & Clarke, Upper Whitecross Street, E.C.
R. Hovenden & Sons, 95 City Road, E.C.; and 31 and 32 Berners Street, W.
Low, Son & Co., 81 Great Queen Street, W.C.
Lynch & Co., 171A Aldersgate Street, E.C.
Maw, Son & Thompson, 7 to 12 Aldersgate St., E.C.
May, Roberts & Co., 9 Clerkenwell Road, E.C.
Millard & Sons, 44 Barbican, E.C.
F. Newbery & Sons, 1 King Edward St., Newgate St., E.C.
Osborne, Garrett & Co., Frith St., Soho, W.
J. Sanger & Sons, 2 Winsley Street, W.
Sutton & Co., Chiswell Street, E.C.
Whitaker & Grossmith, 120 Fore Street, E.C.

FOREIGN AGENTS.

PARIS—Mr. C. H. Fay, 12 Rue de la Paix.
MALAGA—Messrs. Geo. Hodgson & Co.
BOMBAY—Messrs. Treacher & Co.
CALCUTTA—Messrs. Bathgate & Co.
" Messrs. Watson & Summers.
SIMLA—Messrs. Watson & Summers.
RANGOON—Messrs. Watson & Summers.
SHANGHAI—Messrs. Llewellyn & Co.
YOKOHAMA—Messrs. Thompson & Co.
MELBOURNE—Messrs. Felton, Grimwade & Co.

H. P. TRUEFITT (Lim.) supply elegant Show Plates and Counter Bills upon application at 20 & 21 Burlington Arcade.

The Sharp Bros. Soap & Perfumery Co., Ltd.

18 & 19 RED LION SQUARE, LONDON, W.C.

COMMEMORATION SPECIALITIES.

THE "QUEEN" PERFUME

A SOUVENIR OF THE LONGEST REIGN.

AN EXQUISITE PERFUME.

4/-, 8/-, 12/-, 20/-, 28/- & 40/- per dozen (subject).

BENTLEY'S
OLD MUSK BROWN WINDSOR SOAP

The Soap in actual use by Her Majesty the Queen.

SPECIAL SOUVENIR BOX—Beautiful Gold Blocked Medallion Portrait of the Queen on Lid.

EACH TABLET IN WRAPPER WITH VIEW OF WINDSOR CASTLE.

3 Tablets in Box, 9/6 doz. boxes NET, or 9/- per doz. NET for 1 gross of Boxes or in the Popular Old Style Boxes of 3 large or 6 small square Tablets, at 12/- per doz. Boxes (subject).

LATEST NOVELTY IN TOILET SOAPS.

"Bouquet of Flowers,"

EXQUISITELY PERFUMED FROM NATURAL FLOWERS.

TRUE TO NATURE. FINEST QUALITY SUPERFATTED SOAP.

16/- per gross NET.

THE POPULAR

BUTTERMILK SOAP,

TREBLY MILLED AND SUPERFATTED.

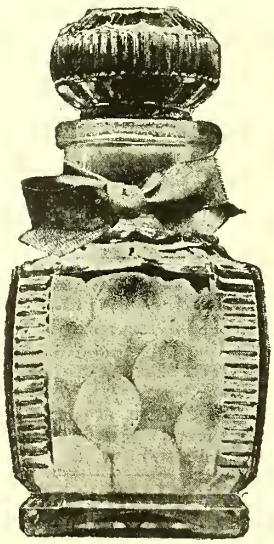
TABLETS ... ... **16/-** per gross **NET.**
BALLS ... ... **18/-** „ „

Delightfully Perfumed. Cheapest in the Market.

HANDSOME NEW Smelling Bottle.

ASSORTED

Colours* ✳ *and Perfumes.



Registered Pattern.

Price 10/6 per doz. NET. Filled.

"The firm have also brought out a new smelling bottle of very effective design, and which presents an appearance which will appeal irresistibly to the purchasing public.'

British and Colonial Druggist.

BEST VALUE EVER OFFERED.

Block is half size of Bottle.

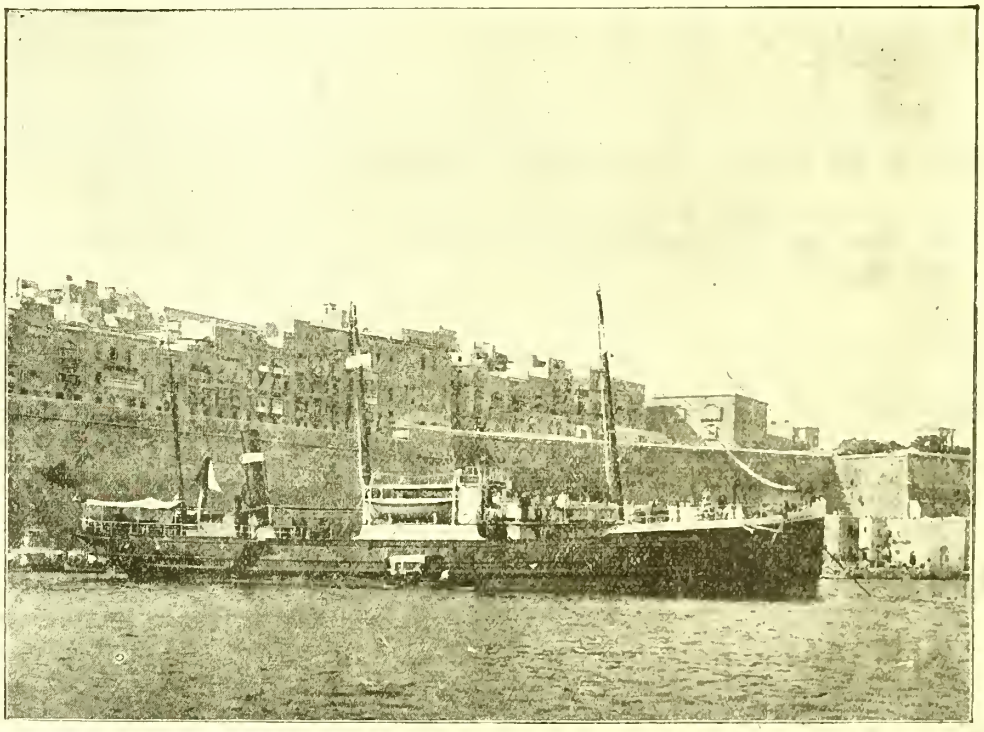
There is a very LARGE DEMAND for these SPECIALITIES, and Buyers will do well to write us for a sample assortment at once, so as to secure these Attractive Goods in time.

BUY FROM THE ONLY ENGLISH SPONGE-FISHING AND DIRECT-IMPORTING FIRM.

CRESSWELL BROTHERS & SCHMITZ'S Sponge Imports For 1897

Are the LARGEST ever received by one firm. They exceed by SEVERAL THOUSAND Packages those received by any other Sponge Merchants or so-called Importers.

The STANDARD of December 21, 1895, says:—"By far the most important house in the trade to-day . . . whose operations have made London the chief sponge market of the world. They have established an extensive fishing station and factory on the island of Ægina, where they employ a whole fleet of Greek boats to fish in different parts of the Mediterranean."



CRESSWELL BROTHERS & SCHMITZ'S STEAMER, "LADY DOWNSHIRE," LEAVING MALTA FOR THE SPONGE FISHING GROUNDS, WITH THE FIRM'S MEDITERRANEAN STAFF ON BOARD.

CRESSWELL BROTHERS & SCHMITZ are the LARGEST SPONGE IMPORTERS IN THE WORLD.
Vide THE CHEMIST AND DRUGGIST: "They take now 40 per cent. of the sponge imports of the United Kingdom, and showed our traveller the official documents which prove their statement."

To rightly estimate the importance of this statement it must be pointed out that the London Post Office Directory gives the names of 44 *firms under the headings of Sponge Importers, Merchants, &c., the balance of* 60 *per cent. of Imports, being divided between which, gives an average of less than* 1½ *per cent.*

Our Prices are by far the lowest in the Trade, because we are at its very Fountain Head, owning our Stores and Warehouses at the Fisheries, employing our own Divers, Fishermen, and Boats, and handling the greatest quantity of Sponges brought from the various Fishing Grounds.

WRITE FOR NEW LIST OF OUR IMPORTS FOR THE SEASON.

CRESSWELL BROS. & SCHMITZ, Sponge Importers, Exporters, and Merchants, **1 & 2 Red Lion Square, London, W.C.** Additional Warehouse at 18 & 19.

CRESSWELL BROTHERS AND SCHMITZ,

1, 2, 18 & 19 RED LION SQUARE,
LONDON, W.C.

SPONGE Head-Quarters

SEASON 1897.

TROUBLES IN THE EAST.

Sponges cannot be cheaper, but it is almost a certainty that they will be dearer. The fishing is interrupted, and at the best will be much less than 50 per cent. of the average. We anticipated this diminution in the supply, and have provided against it. Until our present stock is exhausted we shall sell at our old prices. Buyers will therefore realise the importance of placing their orders with us at once.

SELECT SPONGES FOR CHEMISTS' TRADE.

The following Goods are the Best Value in the Trade:—

SPONGES IN ORIGINAL CASES,

ALSO IN HALF AND QUARTER CASES.

GENUINE UNBLEACHED GOODS AS IMPORTED.

HONEYCOMB FINE TURKEY AND BROWN TURKEY

AT FOLLOWING AVERAGE PRICES PER PIECE:
1¾d., 3d., 4½d., 6d., 7d., 8d., 9d., 10d., 1/-, 1/2, 1/3, 1/4, 1/6, 1/8, 1/9, 2/-, 2/3, 2/6, 2/9, 3/-, 3/3, 3/6, 3/9, 4/-, 4/6, 5/-, 6/-, 7/6, and upwards.

In 1st, 2nd, and 3rd qualities. Full details sent on applications.

Repacked Assorted Cases to contain Buyers' own Requirements.

SPONGES in SMALL PACKAGES.

Fine TURKEY, Fine EGYPTIAN and HONEYCOMB, 1st, 2nd, and 3rd Qualities.

BLEACHED or UNBLEACHED. (State which in ordering.) On Strings of 1 dozen pieces, or loose in Bags.
At per dozen.
2/- 3/- 4/- 6/- 9/- 12/- 15/- 18/- 24/- 30/- 36/- 42/- 48/- 54/- 60/- 66/- 72/-

FINE FLORIDA SPONGES.

The finest fishery ever known of these goods.

We have secured the entire crop of the best quality, and can now offer selections such as have never been seen before in this country at the prices quoted.

FINE FLORIDA CUPS (TURKEY QUALITY), at per doz.—
4/- 6/- 8/- 10/- 12/- 15/- 18/- 24/-

FINE FLORIDA CUT SHAPES (TURKEY QUALITY), at per doz.—
2/- 3/- 4/- 6/- 8/- 10/- 12/- 15/- 18/- 21/-

BLEACHED CUBAN.

At per string or dozen.
WOOL, GRASS, YELLOW AND FINE.
1/- 2/- 3/- 4/- 6/- 9/- 12/-

CARDED SPONGES.

Fresh line, mounted on handsome blue card of new design.
We originated the Carding of Sponges, and continue to supply the best goods on the market.

HONEYCOMB and TURKEY.

Retail.		Per Gross.
School, ½d., 2 doz. on card	..	3/-
" 1d., 1 " "	..	6/-
Toilet, 2d., 1 " "	..	12/-
" 3d., 1 " "	..	18/-
" 4d., 1 " "	..	24/-
" 6d., ½ " "	..	36/-
" 1/-, ½ " "	..	72/-

Retail.		Per Gross.
Toilet, 1/6, ½ doz. on card	..	108/-
" 2/-, ½ " "	..	144/-
" 2/6, ½ " "	..	180/-
" 3/-, ½ " "		18/- doz.
Bath, 3/6, ½ " "		21/- "
" 4/-, ½ " "		24/- "

To Buyers of original Cases, or over £5 worth of loose goods, and who wish to make a good display, C. B. & S. are willing to present a Photograph of Sponge Fishing, 15 in. by 10½ in., together with Printed Show Bills. Mention when ordering.

LOOFAHS.—Direct importation, consisting of best and largest assortment ever received by one house. Send for Price List. Original bales (compressed), or small quantities (swollen out). Chamois Leathers at Leather Dressers' prices. Quality guaranteed.

2½ PER CENT. DISCOUNT FOR PROMPT CASH; NET, THREE MONTHS. LOOFAHS NET.

CRESSWELL BROS. & SCHMITZ, Sponge Importers, Exporters, and Merchants, **1 & 2 Red Lion Sq., London, W.C.** Additional Warehouse at 18 & 19.

Save Middlemen's profits and buy from the only direct importers and holders of the largest stock extant.

G. B. KENT & SONS'

ESTABLISHED 1777—120 YEARS.

A Double ◇ Diamond Jubilee.

Offices and Warehouses: 11 GREAT MARLBOROUGH STREET, W.

Telephone No. 3550. Registered Telegraphic Address: "TRICHO LONDON."

Steam Factories: ROBINSON ROAD, VICTORIA PARK, E.

Telephone No. 1166.

Dublin Branch: 63 WILLIAM STREET.

TRADE

MARK

A.D. 1777.

Australasian Agents: MESSRS. FRANCIS FORREST & CO., 484 Collins Street, Melbourne.
New York Agents: MESSRS. McKESSON & ROBBINS, 91 & 93 Fulton Street.
Canadian Agents: Messrs. GILMOUR BROS. & CO., 483 & 485 St. Paul Street, Montreal.
Paris Agency: M. PITET Aîné, 51 Faubourg Poissonnière.
Brussels Agency: MAISON NORBERT DEKEYN, 49 Rue Fossé aux Loups.
Agent in Buenos Ayres: MR. WM. BURMESTER, Calle Bolivar 240.

G. B. KENT & SONS

beg to give notice that, after **89** years' occupation of their present premises at

11 Great Marlborough Street, W.,

they have purchased the Freehold of the commanding Block of Six Floors known as

75 Farringdon Road, E.C.,

and will shortly transfer their Stock, Show Rooms, and Offices to that address, as soon as the necessary alterations shall have been completed, due notice of which will be given. This is, of course, in addition to the

Factory at Victoria Park, E.,

which has recently been enlarged.

1897 PRICE LISTS POST FREE ON APPLICATION.

Those interested in Selling or Using Brushes should read

A Bit
A-Bout
A Brush.

by Tricho, post-free on application.

ENGLISH BRUSHES.

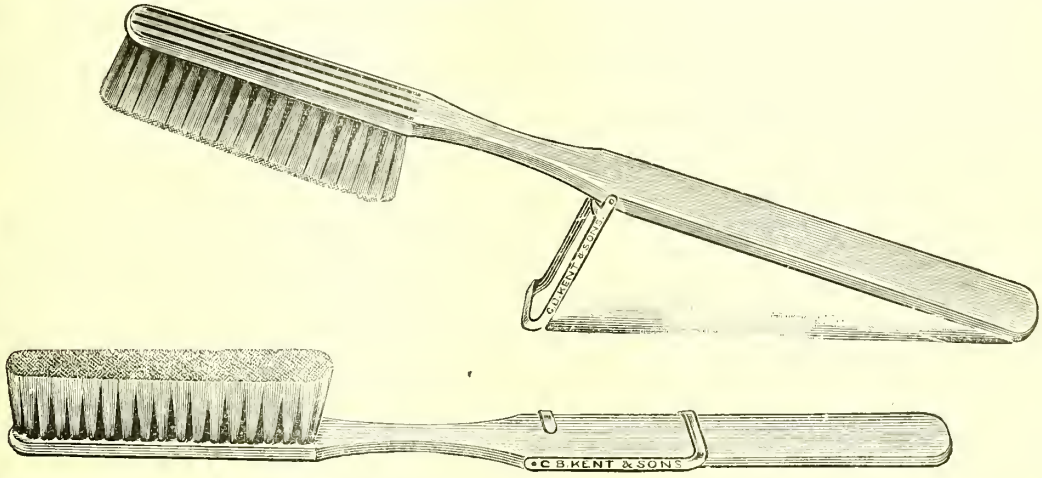
G. B. KENT & SONS'

THE

"TRIPOD" TOOTH BRUSH.

(Patent applied for.)

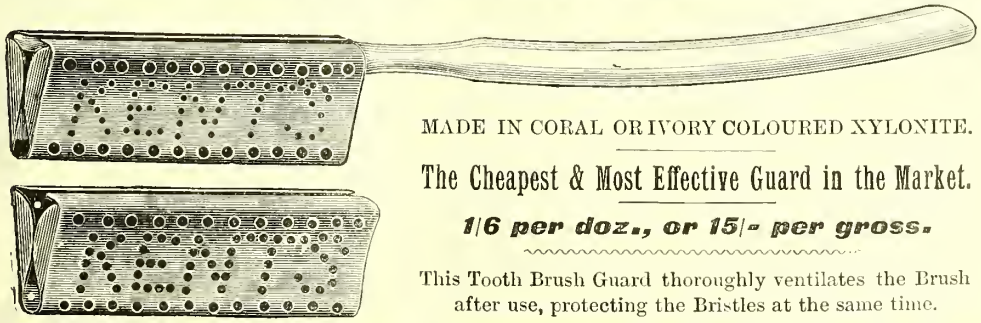
This Novel Invention consists of a metal attachment to the handle of the Brush, which, after use, is made to form a stand for drying and ventilating the Brush, with the bristles slanting ***downwards.*** This position is most sanitary and effective, as it drains the moisture away from the holes of the Brush. When in use the tripod prop fits close into the handle and does not in any way incommode the user.



The Tripod Attachment can be fixed to any Quality of our Tooth Brushes at 1/- per dozen extra.

Sole Manufacturers: G. B. KENT & SONS, LONDON.

Patent "TRICHO" TOOTH BRUSH GUARD.



MADE IN CORAL OR IVORY COLOURED XYLONITE.

The Cheapest & Most Effective Guard in the Market.

1/6 per doz., or 15/- per gross.

This Tooth Brush Guard thoroughly ventilates the Brush after use, protecting the Bristles at the same time.

ENGLISH BRUSHES.

THE ROYAL PERFUME.

Prepared by the Proprietors of
"PHŪL-NĀNĀ"
The New Indian Perfume.

AN UNDYING FRAGRANCE.

Distilled by the Proprietors of
"HASU-NO-HANA"
The New "Japanese" Perfume.

Of all Chemists and Perfumers throughout the Empire.

S. V. METH.

JONES & COMPANY,
COPPERFIELD ROAD,
LONDON, E.
LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in 5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS.
SAMPLES FREE

JAMES BURROUGHS S.V.R. 65 o.p. 60 o.p.

CALE ST., CHELSEA, S.W.
and Methylated Spirit
AT LOWEST PRICES.
WRITE FOR QUOTATIONS.

BOORD & SON,
DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS.
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.
Quotations for S.V.R. Methylated Spirit and Finish on application.
FINEST ORANGE WINE FOR QUININE.

PERFECTLY PURE. WRITE FOR OUR PRICES BEFORE ORDERING.

S 0/56 V 0/60 R

TINCTURE SPIRIT
60 O.P. AT LOWEST PRICES. 56 O.P.

PURE ORANGE WINE.

S 0/61 V 0/64 M

AT LOWEST PRICES.
Special Terms to Large Buyers.

PURE GINGER WINE.

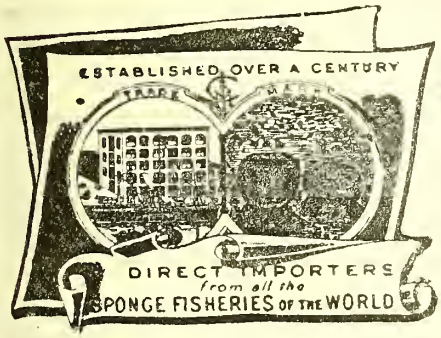
FOREIGN WINE AND SPIRIT MERCHANTS.
SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY,
7 YEARS OLD. THE CREAM OF SCOTCH WHISKY. Per doz. 42/- Per doz.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT

I. & M. COHEN,

Sponge Merchants, Importers & Exporters,

AND CHAMOIS LEATHER MERCHANTS,



53 & 54 HOUNDSDITCH,

AND

66 ST. MARY AXE, LONDON, E.C.

Auxiliary Warehouses and Bleaching Works—
COLLINGWOOD ST., CITY RD., E.C.

SPONGES

DRUGGISTS, CHEMISTS, SHIPPERS & OTHERS

REQUIRING

GOOD RELIABLE SPONGES

Of every description at the **Lowest Possible Prices,** should purchase from us, **the direct Importers. Our Sponges** can be had in original Cases and Bales as received from **our Buyers,** or in Cases, Bales, Boxes, on Cards or Strings, Natural or Bleached, to suit customers' requirements.

All Orders will receive Prompt and Personal Attention.

GOLD MEDAL

JAMAICA EXHIBITION.

PURE AND PERFECT ARTICLE FOR

Teeth, Gums, and Breath:

PURILINE

REGISTERED

TOOTH-POLISH

Will purify and beautify the Teeth with a pearly whiteness; polish the enamel; prevent tartar; destroy all living germs and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use.

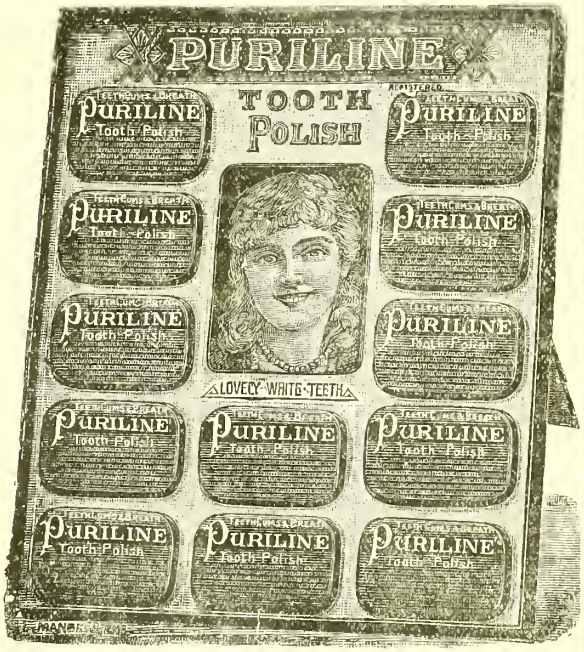
Price 1/-, in handsome Enamel Box.

The POPULAR DENTIFRICE

WHICH SELLS AT SIGHT.

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.



The Court Circular says:—"'Puriline' emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

H. M. Stanley, D.C.L., LL.D., the great African explorer, says:—"I use 'Puriline Tooth Polish and Wash'; am much pleased with both."

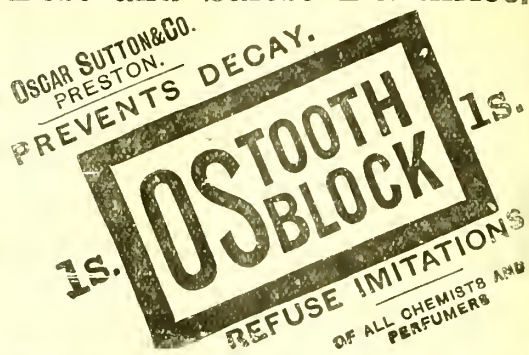
The Countess of Rosslyn writes:—"Have been recommended to use your Dentifrice, called 'Puriline.' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

A. WILSON, *21 New Park Road, Brixton Hill,* **LONDON, S.W.**

Proprietor of "Bunter's Nervine," "Dentine," and "Puriline."

Best and Safest Dentifrice.



JAMES EWEN & SONS, 5 HATFIELD STREET, LONDON, S.E.

STRONGER THAN FRENCH GUT.

FOR CAPPING BOTTLES AND POTS.

FLARE SKINS 9D. doz.

SAMPLE ON RECEIPT OF 1d. STAMP.

CHEAPER THAN WHITE SPLIT.

A LAMENT AND A REMEDY

Oh! had I but Aladdin's lamp,
Though only for a day,
I'd try to find some link to bind
The CONES which break away.

Oh! sigh not for Aladdin's lamp,
Nor wish its use one day;
The CONES with feather tip secured
No longer break away.

The PUBLIC DEMAND THESE MENTHOLS, because they

WON'T BREAK OFF.

All Shapes, Acorn, Bottle, Flat.

Two Prices, **8/6** and **6/6** dozen.

ORDER OF

Mr. QUELCH, LUDGATE SQUARE, LONDON,

Of T. D. VINT, Patentee, HASTINGS,

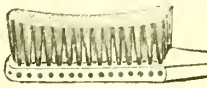
Or of any Sundry House.

Fuller particulars on p. 621 of O. & D. Diary, 1897.

R. ADDIS & SON.

THE

"EVERFAST" TOOTH BRUSH

PATENT  No. 6,645.

WARRANTED LONDON MADE.

These Brushes are Manufactured on an entirely new principle.

In addition to the ordinary means of securing the bristle, holes are drilled through the sides and our "Everfast" cement intermingled with the bristle. By this original process every knot is so securely fastened that it is impossible for even a single hair to come out, the danger and unpleasantness of loose bristles in the mouth being completely removed. Only materials of first-class quality used.

To be OBTAINED of all WHOLESALE HOUSES & MERCHAN

JEANCARD, GAZAN & DOUMIN,

Distillers and Importers,

13 St. Mary Axe,

LONDON, E.C.

Head Distillery at
CANNES (France).

Trade Mark J.G.D.

Telegrams: "JEANCARD LONDON."
Telephone Number, 11955.

ESSENTIAL OILS OF ALL KINDS.

MUSK, CIVET, AMBERGRIS, VANILLOES, ATTAR-of-ROSE.

WHITE NEUTRALINE OILS.

NATURAL CONCENTRATIONS of FLOWERS.

Pomades, Extracts, & Alcoholic Preparations.

CRYSTALLIZED PERFUMES

SYNTHETIC PERFUMES,

SPECIALITIES.

SAMPLES AND PRICES ON APPLICATION.

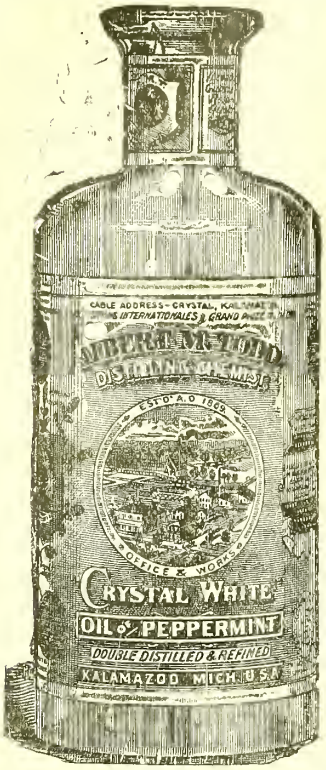
BRANCH DISTILLERIES in the Alps for Peppermint and Lavenders.
Also in Africa and Bourbon for Geranium.

STOCKS KEPT IN LONDON OF ALL STANDARD QUALITIES.

FIVE HIGHEST AWARDS—Medals and Diplomas World's Columbian Exposition, 1893,

For ESSENTIAL OILS,

And Improved Methods and Appliances for their Production.



A. M. TODD'S

OIL PEPPERMINT

&c.

"CRYSTAL WHITE," DOUBLE DISTILLED & REFINED.

All my Products are GUARANTEED ABSOLUTELY PURE, SOLUBLE, of FINEST AROMA, and SUPERIOR QUALITY in EVERY RESPECT.

A. M. TODD, Grower, Distiller, & Refiner,

KALAMAZOO, MICHIGAN, U.S.A.

WIDENMANN, BROICHER & CO.

Agents for Great Britain,

33 LIME STREET. E.C.

R C TREATT Dunster House Mincing Lane LONDON

IMPORTER OF

Musk Civet Ambergris Attar-of-Rose

ESSENTIAL OILS

Wholesale and Export only

Price List and Quotations on application

Essential Oils.

FLORAL EXTRACTS, CONCRETE ESSENTIAL OILS, POMADES, AND DISTILLED WATERS,

MANUFACTURED BY

F. VARALDI, CANNES.

ESTABLISHED 1858.

Specialties—Riviera Violet Extract, Ess. Oil Geranium, Pomades, and Almond Oil.

SOLE AGENTS IN THE BRITISH ISLES:

S. M. FRANKENSTEIN & CO.

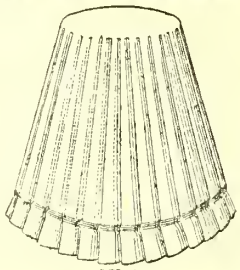
Dashwood House, 9 New Broad Street, LONDON, E.C.

Every CHEMIST, DRUGGIST, and MANUFACTURER should use

DAILLEY & WILKINSON'S PLEATED PAPER BOTTLE-CAPS.

Great Reduction in Prices.

Nos. 0, 1, 2, 3, 10, 20, 30, 3B, for Phials... ... at 5d. per gross.
" 4, 4B, 40 (3 to 6 oz.) ... " 7d. "
" 5, 5B, 50, 5½ (8 to 10 oz.) " 8d. "
" 6, 6B, 60 (Pints) ... " 10d. "



No 4
(Machine-made).

Quality and Colours Guaranteed.

Samples can be had on application through Wholesale Houses, or direct.

8 Great Sutton Street, E.C.

TO WHOLESALE AND EXPORT TRADES.

W. RANSOM & SON

(ESTABLISHED HALF A CENTURY),

MANUFACTURING PHARMACEUTICAL CHEMISTS,

Distillers of Essential Oils and Cultivators of Medicinal Plants,

HITCHIN, near LONDON.

SPECIALITIES:—

SOLID AND LIQUID EXTRACTS EXPRESSED JUICES. ESSENTIAL OIL OF LAVENDER.
ESSENTIAL OIL OF PEPPERMINT. SCAMMONY RESIN. JALAP RESIN.
ELATERIUM. MERCURIAL PILL AND OINTMENT. ALOIN. EUONYMIN. LEPTANDRIN.
DRIED MEDICINAL LEAVES. ENGLISH DANDELION ROOT.

All Standardised Preparations of the British Pharmacopœia are tested and corrected by our Analyst before leaving the Laboratory.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils, and Dried Herbs of Superior Quality. Also Award at the Paris Exhibition, 1867.

SYNTHETIC & OTHER PRODUCTS

MANUFACTURED BY THE

Société Anglo-Française des Parfums Perfectionnés, Limited,

WORKS, COURBEVOIE, PARIS.

W. J. BUSH & CO.

(LIMITED),

ARTILLERY LANE, LONDON,

SOLE VENDORS for the ENTIRE WORLD

AUBEPINE S.A.F. (Mayblossom)
Powder.
Liquid.

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An entirely new perfume, and most true in character and exceedingly strong. Especially adapted for use in perfumery and scented soaps (milled process).

COUMARIN S.A.F. (Tonquin)

GARDENIA S.A.F.
A new perfume; most true in character and exceedingly strong. Recommended for use in perfumery and scented soaps (milled process).

HELIOTROPINE S.A.F. Special Quality

OIL OF LEMON S.A.F. Synthetic Terpeneless
This is an entirely new product, and perfectly true in perfume and flavour. It is about 15 to 20 times stronger than the best qualities of Oil of Lemon, and 40 to 50 times stronger than the cheaper kinds. For use in Confectionery and Biscuits it is most economical and advantageous in every way.

MUGUET S.A.F. (Lily)

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Highly suitable for perfuming soaps; is exceedingly powerful, and works out exceptionally cheap in use.

OIL ROSES S.A.F. (French A)
" " (" B)
This is a synthetic Otto of Roses, and valuable as an economical substitute.

QUARANTAINE S.A.F. (Pinky)

ROSE MOSS "

ROSE TEA "
These Roses are manufactured by a patented process, and are very true in character. Especially adapted for use in perfumery and scented soaps (milled process).

TERPINEOL S.A.F. (Lilac)

YARA YARA S.A.F (Acacia)

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As a considerable fall has taken place in the price of this article, please ask for quotations before ordering.

WHOLESALE TRADE ONLY.

STAFFORD ALLEN & SONS

(ESTABLISHED 1833),

DRUG MILLERS, OIL PRESSERS,

AND

DISTILLERS OF ESSENTIAL OILS,

7 COWPER STREET, FINSBURY, LONDON, ENGLAND.

EXPRESSED OILS

ALMOND (Ol. Amygd. Dulc.)
PEACH KERNEL (Ol. Amygd. Persic. Dulc.)
Frequently imported as Ol. Amygd. Exot.
CROTON

ESSENTIAL OILS

ALMOND	ANISEED	BUCHU	CARAWAY
CARDAMOM	CELERY	CINNAMON	CLOVE
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JUNIPER	NUTMEG	ORRIS ROOT	PEACH KERNEL
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SANDAL WOOD

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HIGHEST AWARDS CHICAGO, 1893, "FOR OILS OF EXCEPTIONAL PURITY AND STRENGTH."

GEORGE ALLEN & CO.

(ESTABLISHED 1846),

AMPTHILL, BEDFORDSHIRE, ENGLAND,

MANUFACTURING CHEMISTS,

Medicinal Herb Growers, Distillers, Manufacturers of

SOLID & FLUID EXTRACTS, JUICES, &c.

London Agents—STAFFORD ALLEN & SONS.

ARTIFICIAL PERFUMES

THE BEST AND PUREST,

MANUFACTURED BY

CHUIT & NAEF, GENEVA.

SOLE AGENTS AND CONSIGNEES:

S. M. FRANKENSTEIN & CO.

Dashwood House, 9 New Broad Street,

LONDON, E.C.

Do you require Petroleum Jelly?

If so, SNOWDON'S PETROLEUM JELLY, White or Yellow, is the best and purest obtainable. It fulfils all the requirements of the B.P., is pronounced by the Medical Profession to be unsurpassed, and DR. S. RIDEAL, D.Sc. Lond., F.I.C., F.C.S., states that the various kinds are of "uniform good quality."

Have you seen our New Speciality in Petroleum Jelly?

The "SNOWDRIFT" (Regd.) BRAND is of a tough or stringy consistency, and is highly commended by *The Hospital*, which says of it "That its tough or stringy nature is a great improvement. We learn that already the demand for the "Snowdrift" Brand is very great. It is cheaper than ordinary vaseline, and we confidently recommend it to the Medical Profession." Samples and Prices will be sent on application.

Send for a Sample of "Snowdrift."

Address SNOWDON, SONS & Co., Millwall, London, E.
Telegraphic Address: "SNOWDRIFT, LONDON."
Telephone: 5127.

SALVO PETROL

A SUPERIOR

VASELINE.

May be procured through all Chemists and Druggists, and is Manufactured solely by the Proprietors,

THE DEE OIL COMPANY, LIMITED.

Works: SALTNEY, CHESTER.

SALVO PETROLIA.

Sanctioned by the Board of Trade Marine Department, and included in their instructions issued May, 1894, to Superintendents of Mercantile Marine Offices.

Manufactured in five distinct qualities — WHITE, LEMON, YELLOW, GOLDEN, and RED (Veterinary).

Packed in tins 1, 2, 4, 5, 7, 10, 14, and 28 lbs., 56 and 112 lb. Drums, and 3 cwt. Barrels.

EDIBLE SALVO PETROLIA.

Invaluable to all Singers, Actors, and Public Speakers. Of the highest value for Throat Disorders of all kinds.

OLEUM DEELINÆ

(Registered).

Generally adopted by the Medical Profession for—

Ophthalmia, Scurvy, Ringworm, Eczema, and all Skin Diseases.

Packed in Cases—One Dozen 1*s.* Bottles; One Dozen 2*s.* Bottles. Pint Bottles 4*s.* 6*d.* each, for Hospitals and Dispensing Chemists.

Testimonials may be had upon application.

Manufactured solely by the Proprietors,

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Works: SALTNEY, CHESTER.

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LONDON—49 Lime Street, E.C.

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HULL — Mr. A. Booth, 5 Railway Arch, Wellington Street.

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BARROW-IN-FURNESS—Mr. J. M. Mawson, 32 Strand.

A LEADING LINE—ALWAYS IN DEMAND!

M. BEETHAM & SON

Beg to announce that in order to insure a fair profit to the Retail Trade, and to endeavour to do their part in the effort now being made to put an end to the suicidal system of "Cutting" so prevalent in the Trade, they have decided from October 20th to fix minimum prices at which their Glycerine and Cucumber, Hair Grower, &c., &c., shall in future be sold.

M. BEETHAM & SON trust that their endeavour to give the Retailer larger profits will be reciprocated, and that he will in return help them to increased business by freely and ungrudgingly letting the public have the articles for which they ask. So shall the benefit be mutual, and not all on one side.

		Minimum Retail Price.	Minimum Wholesale Price.
Beetham's Glycerine & Cucumber . . .	1/-	10½d. each	8/6 doz.
" " " . . .	1/9	1/7 "	15/- "
" " " . . .	2/6	2/3 "	20/6 "
" " " . . .	4/6	4/- "	38/6 "
" **Capillary Fluid & Hair Grower** .	2/6	2/3 "	20/6 "
" " " " " .	4/6	4/- "	38/6 "
" **Corn Plaster**	1/1½	1/- "	9/6 "
" " "	2/9	2/6 "	24/- "

£5 Lots single or assorted Goods, 5 % discount for CASH WITH ORDER.

Show Cards, Handbills with name on, and Window Dummies supplied free on receipt of Business Card by

M. BEETHAM & SON, CHELTENHAM.

All cases of "Cutting" should be reported to the SECRETARY, P.A.T.A., 2 Stonecutter Street, E.C.

ROBARE'S AUREOLINE

Or GOLDEN HAIR WASH.

4-oz. Bottles, 32/-; 10-oz. Bottles, 64/- per doz.

To be obtained Wholesale from R. HOVENDEN & SONS, & from all the principal Patent Medicine Warehouses in London

CAUTION.

A. S. LLOYD'S EUXESIS,

FOR

SHAVING WITHOUT SOAP, WATER, OR BRUSH.

R. HOVENDEN & SONS having purchased under an administration suit the business of the late A. S. LLOYD, with the receipt, trade-mark, and goodwill of the celebrated Euxesis, the trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses.

The label is printed with Black Ink only on a yellow ground, with our Trade Mark at the bottom.

TRADE MARK

30, 31, 32 & 33 BERNERS ST., W.; & 87, 91, 93 & 95 CITY ROAD, E.C., LONDON.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

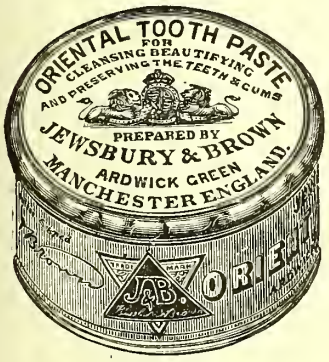
CAUTION.

The Labels on genuine EUXESIS bear signature of A. S. LLOYD in BLACK INK, and that of his Widow, AIMÉE LLOYD, in RED INK. Refuse any other.

Sole Manufacturers and Proprietors: **AIMÉE LLOYD & CO.**

3 SPUR STREET, Leicester Square, LONDON, W.C.

N.B.–When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).



JEWSBURY & BROWN'S Oriental Tooth Paste.

Established over 70 years. Warranted to retain its properties and keep good in any climate. The original and only genuine is manufactured solely by

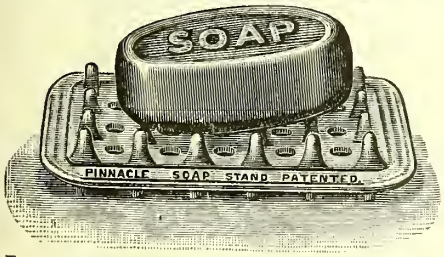
JEWSBURY & BROWN,
ARDWICK GREEN, MANCHESTER.

Particular attention should be paid to the Trade Mark, printed in red and green, a facsimile of which is annexed, as numerous imitations are offered.

MAY BE OBTAINED FROM THE WHOLESALE HOUSES.

Bills and Showcards forwarded on receipt of Address Cards and directions for enclosure.

THE PINNACLE SOAP STAND

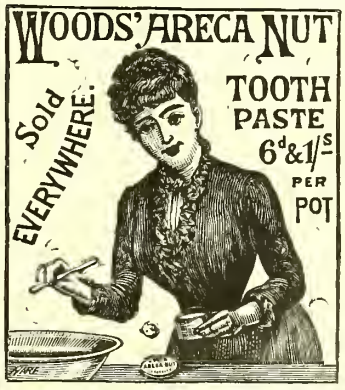


For Preventing Toilet Soap and other Soap from Gelatising after use, bu always Dry and pleasant to use.

For particulars, see last Number of THE CHEMIST AND DRUGGIST

SOLD BY ALL WHOLESALE FIRMS.

THE PINNACLE SOAP STAND CO.,
65 Frith Street, Soho Square, LONDON.

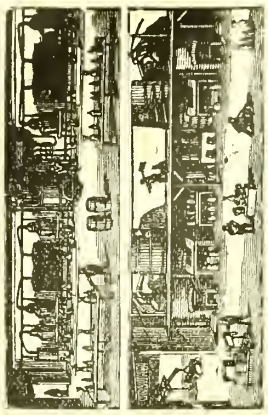


Largest Sale in the World Hundreds of Testimonials. Have no Substitute.

Also in Collapsible Tubes, 1s. each.

WOODS,
PLYMOUTH.

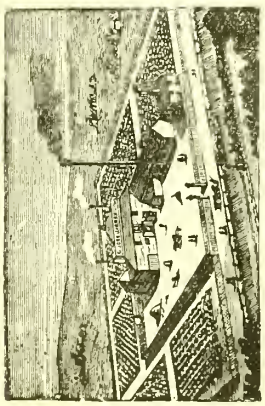
Removes Tartar, Whitens the Teeth, Sweetens the Breath, and Checks Decay.



JOHN JAKSON & CO

Growers and Distillers of PEPPERMINT, LAVENDER, CAMOMILE, &c.

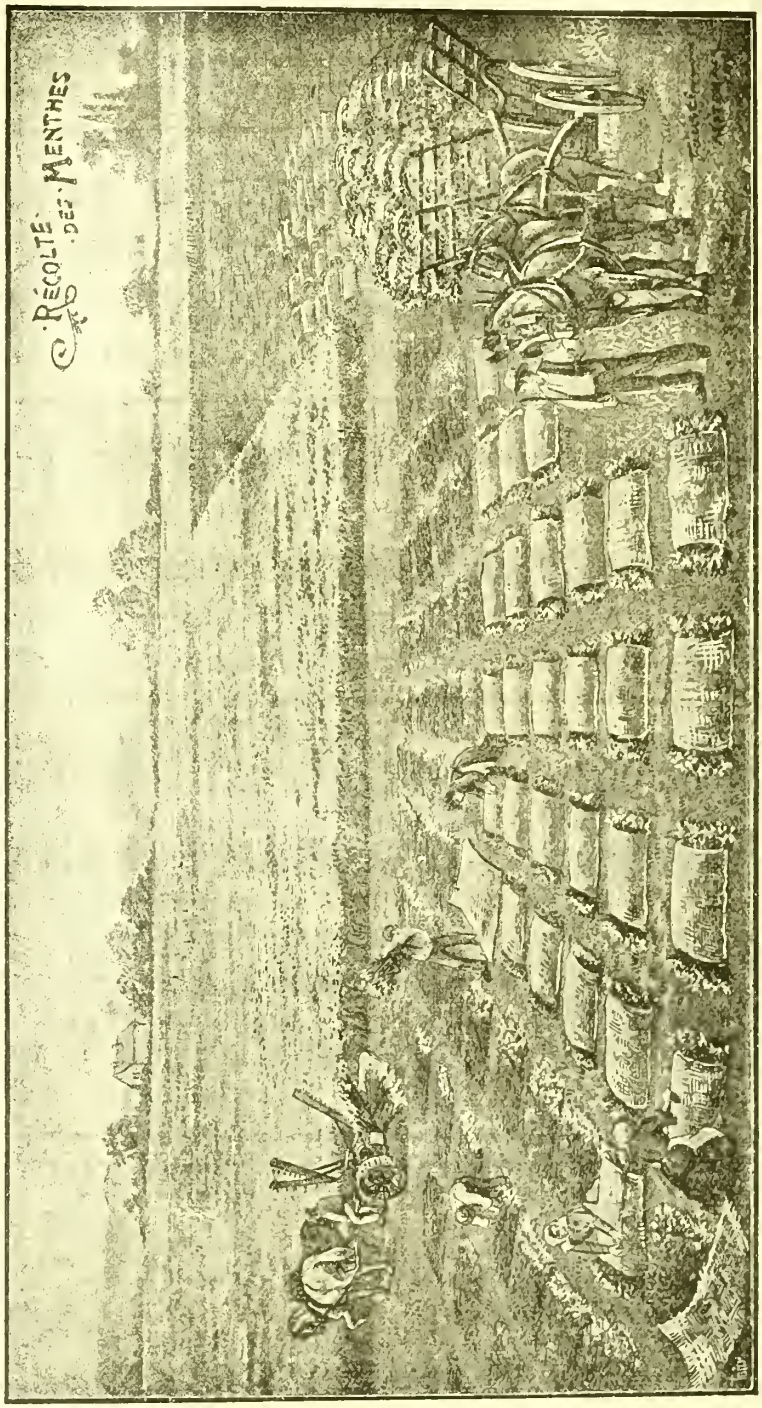
Mitcham Road Steam Distilleries, CROYDON (Surrey). 17 Philpot Lane, Fenchurch Street, LONDON, E.C. Depot—4 Rue Payenne, PARIS.



HIGHEST AWARDS AT PRINCIPAL EXHIBITIONS. 6 Gold, Silver, and other Medals awarded—Milan, 1880; Paris, 1885; Liverpool, 1886; Paris, 1889; Antwerp, 1885; London, 1890; Lyons Universal Exhibition, 1894—"Hors Concours" Member of Jury.

17 Bloomsbury Square, London, *9th January*, 1886.

Having visited the cultivation grounds and distilleries of Messrs. John Jakson & Co. at Mitcham, devoted to the production of lavender, peppermint, and other essential oils, and having submitted samples of the lavender and peppermint oils prepared by this firm to a careful physical and chemical examination, I can bear testimony to the very complete arrangements, with all modern appliances, which are here provided for distilling essential oils, and to the excellent quality of the oils so distilled.



Mitcham has been renowned throughout this and part of the previous century for the successful cultivation of peppermint, lavender, and other medicinal plants from which oils of superior quality have always been produced, but at no previous period have the means for obtaining products of the highest quality been so successfully carried out as they have been since the introduction of Messrs. Jakson's system.

T. REDWOOD, Ph.D., F.I.C., F.C.S., Etc.,
Emeritus Professor of Chemistry and Pharmacy to the Pharmaceutical Society of Great Britain.

The only firm in England occupied solely in the Cultivation & Distillation of **PEPPERMINT, LAVENDER, CAMOMILE, ROSEMARY, & PENNYROYAL OILS**

TWO DISTILLERIES—STEAM AND OPEN FIRE. Farms & Cultures—MITCHAM, WALLINGTON, BEDDINGTON, CARSHALTON.

All Oils bearing our Trade Mark are guaranteed Pure and Genuine.

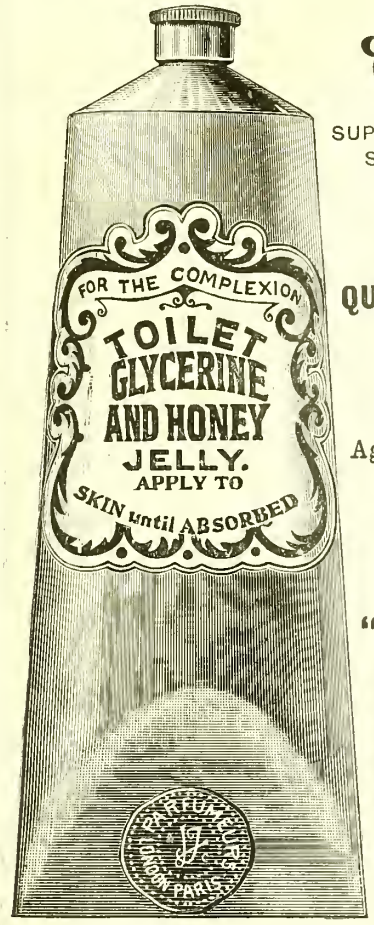
JAKSON'S
Lavender Water
A One Shilling Bottle of this Perfume guaranteed to contain more value in Lavender than a Pint of that as usually sold.
BEST MITCHAM Concentrated
LAVENDER WATER
PREPARED DIRECT FROM THE FRESH MITCHAM FLOWERS BY THE GROWERS
JOHN JAKSON & Co
MITCHAM ROAD STEAM DISTILLERIES, SURREY
THE LARGEST GROWER AND DISTILLER AT MITCHAM.
John Jakson & Co
MITCHAM
To obtain the genuine see name on each bottle.
OVER 500 ACRES IN CULTIVATION

MOISE & MARSHALL, LTD.

THE LARGEST EXPORTERS AND FILLERS OF

ENAMELLED *Collapsible Tubes.*

9 BUTLER STREET, LONDON, E.C.



Facsimile (1s. size).

SUPPLIED IN (2) SIZES, AND IN (9) BEAUTIFUL ART SHADES, WITH HANDSOME GOLD EMBOSSED LABELS, IN ORDER THAT THE TRADE MAY USE AND SELL THEM AS THEIR OWN.

QUALITY AND **QUANTITY** OF CONTENTS **HIGHEST!**

PRICES!! LOWEST!!

Against **FAIR INDENTS** we print **CUSTOMERS' NAMES** on **SPECIALLY - DESIGNED LABELS,** which we **CONFINE TO THEM ABSOLUTELY & EXCLUSIVELY.**

"A DISTINCT ADVANCE IN ELEGANT PHARMACY; OF UNDOUBTED MERIT AS TO THEIR STYLE AND FINISH; A DECIDED IMPROVEMENT ON POTS AND JARS; AND A HANDSOME COUNTER ADJUNCT."

Facsimile (6d. size).

PRICE LIST	Per Doz., Small	Per Doz., Large	Per Gross, Small	Per Gross, Large	PRICE LIST	Per Doz., Small	Per Doz., Large	Per Gross, Small	Per Gross, Large
Areca-nut Tooth Paste	3/3	6/5	38/9	76/10	Hamamelis Cream	3/3	6/5	36/9	76/10
Carbolic " "	3/3	6/5	38/9	76/10	"Perolyta" Jelly	4/6	8/6	47/4	94/8
Cherry " "	3/3	6/5	38/9	76/10	Pomade Hongroise.....	3/–	6/–	35/8	68/8
Rose " "	3/3	6/5	38/9	76/10	Shaving Cream	3/3	6/5	38/9	76/10
Cold Cream (with "Lanoline")	3/9	7/6	44/6	89/6	Toilet Cream (with "Lanoline")	3/9	7/6	44/6	89/6
" (with Otto of Rose	3/3	6/5	38/9	76/10	Petroleum Jelly	2/2	4/–	25/4	47/8
" (with Parma Violets)	3/3	6/5	38/9	76/10	Vaseline (Genuine).....	2/5	4/9	28/4	56/4
Glycerine and Honey Jelly	3/3	6/5	38/9	76/10	Violetta Crème	5/9	11/6	67/6	—

N.B.—These Prices "Per Doz." are NET, and based on INDENTS of **30** Doz. EACH SIZE, whilst those "Per Gro." are against INDENTS **60** Doz. EACH SIZE, assorted AS DESIRED in BOTH cases. (If Cash accompanies order, we allow 2½% discount).

Our Agents, Messrs. DREW BROS.,

Of SYDNEY, MELBOURNE, ADELAIDE, BRISBANE, and AUCKLAND, N.Z., and NEW SOUTH WALES, will execute ANY Indents for Australia, New Zealand, and New South Wales, or furnish any other particulars required.

MOISE & MARSHALL, LTD.

WHOLESALE MANUFACTURING PERFUMERS,

—9—

BUTLER ST., LONDON, E.C.

—AND—

EXPORT BONDED FACTORY "I" WAREHOUSE, ST. KATHERINE'S DOCKS, E. (LONDON).

. . . SOLE PROPRIETORS . . .

"HIGHLAND HEATHER" PERFUME (REGD)

AND

"HYSCENIA," & "ALPINE VIOLET."

(REGD.) (REGD.)

NUMBERS OF SOME OF OUR LEADING LINES IN PERFUMES.

No. 1012	..	.. @ 4 6	doz.
„ 1012A	..	.. „ 4/6	„
„ 1012B	..	.. „ 4 6	„
„ 1011	..	.. „ 9 -	„
„ 1011A	..	.. „ 9 -	„
„ 1011B	..	.. „ 9 -	„
„ 807B	..	.. „ 21/-	„
„ 807	..	.. „ 30/-	„
„ 132B	..	.. „ 32/-	„
„ 132	..	.. „ 45/-	„
„ 801B	..	.. „ 21/-	„
„ 801	..	.. „ 30/-	„
„ 802B	..	.. „ 21/-	„
„ 802	..	.. „ 30/-	„
„ 803B	..	.. „ 21/-	„
„ 803	..	.. „ 30/-	„
„ 801B	..	.. „ 21/-	„
„ 804	..	.. „ 30/-	„
„ 805B	..	.. „ 21/-	„
„ 805	..	.. „ 30/-	„
„ 806B	..	.. „ 21/-	„
„ 806	..	.. „ 30/-	„
„ 808B	..	.. „ 21/-	„
„ 808	..	.. „ 30/-	„
„ 809B	..	.. „ 21/-	„
„ 809	..	.. „ 30/-	„
„ 189 Lavender	..	.. „ 12/-	„
„ 189A Cologne	..	.. „ 12/-	„
„ 189B Toil. Vingr.		„ 12/-	„
Sachets, Parisienne..		„ 4/-	„

25 % disct. IN BOND.

The above is a facsimile of the coloured show card, which we supply in handsome frame.

SEND THROUGH OUR AGENTS, YOUR LONDON HOUSE, OR DIRECT,

for a CASE of our "HIGHLAND HEATHER" PERFUME

CONTAINING 12 doz. No. 201, at **18/-**; 18 doz. No. 295, at **21/-**; 6 doz. No. 299, at **36/-**; 3 doz. No. 207, at **42/-**.

25 per cent. discount IN BOND.

One SHOW CARD and 500 BOOKS of POPULAR SCOTCH SONGS, SET TO MUSIC.

Our AGENTS, Messrs. DREW BROS., of Sydney, Melbourne, Adelaide, Brisbane, and Auckland, N.Z., will forward all Indents for our Specialities, and any other particulars that may be required.

GENERAL PRICE LIST ON APPLICATION.

FRANCIS NEWBERY & SONS,

DRUGGISTS' SUNDRIESMEN,

WHOLESALE PERFUMERS, & DEALERS IN PHOTOGRAPHIC MATERIALS,

1 & 3 KING EDWARD STREET, LONDON, E.C.

Chemists who wish to increase their Profits will do well to pay attention to the following goods, which are thoroughly established and sell wherever shown.

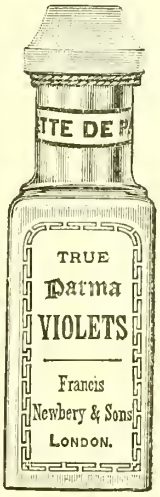
NIAGARA MILLS MANILLA CURL PAPER

Large Cartons, Retail 1/6 .. *Per doz.* 9/-
Per case of 50 .. .. .. „ 36/-

CASE FREE

THE "IMPERIAL" LAVENDER SMELLING SALTS

In Actinic Green Bottles.
Small Size 4/- *per doz.*
Large „ 7/- „



Best Selling 3*d.* Line on the Market.

TRUE PARMA VIOLETS

1 doz. in each Boz.
per doz. 2/-

DIAMOND JUBILEE PERFUME SOUVENIRS

1/- Retail .. .. *per doz.* 8/-
1/6 „ .. .. „ 10 6
2/6 „ .. .. „ 21/-
Each in Fancy Card Case.

"ST. PAUL'S" BRAND

PERFUMED TOILET SOAPS

These Soaps are of the highest quality, free from all injurious compounds, very nicely Perfumed, and got up in a very saleable way.

Each Tablet is wrapped, and there are 12 Tablets in a Counter Case, with Show Card on hinged lid. No Proprietor's name appears on these Soaps.

4*d.* Cold Cream and Oatmeal .. .. *Per doz.* 2/3
4*d.* White Rose and Cucumber .. „ 2 3
4*d.* Glycerine and Cucumber .. .. „ 2 3
6*d.* The "CATHEDRAL" Soap .. „ 3 2

Chemists and Perfumers who desire to cultivate a higher class of trade will find the above Soaps much liked by persons who do not care for the many common Soaps now on the market.

Fig. 206H.

Fig. 206I.

Fig. 206G.

PERFUMES ("ST. PAUL'S" Brand)

-/6 Sprinklers .. .. *Per doz.* 3 9
-/6 Capped .. .. „ 3 6
1/- Sprinkers .. .. „ 7 -
1/- Capped .. .. „ 6 9

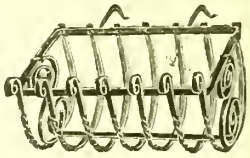
Assorted Shapes, viz., Cannons, Ovals, Globes, Lubins, Lundborgs, and Squares.

1/6 Stoppered Lundborgs } Fig. 206G. .. *Per doz.* 12/-
2/- „ „ .. „ 16/-
3/- „ „ .. „ 24/-

NOTE.—Write for Special List of Perfumes, showing facsimiles of bottles, too numerous to mention here.

PAPYROLES

6*d.* Non-Perforated .. .. *Per doz.* 3/-
6*d.* Perforated. Special new roll „ 3/-
6*d.* No. 3. Perforated .. „ 3 6
7*d.* "Monster," 1000 sheets, special. Perforated .. „ 4 9
8*d.* 1st Quality .. .. „ 5/-
8*d.* 2nd Quality .. .. „ 4/-
9*d.* Thin Manilla No. 1 .. „ 6/-
1 - Medicated .. .. „ 7/6
1/- Non-Medicated No. 1 .. „ 7 6



SPONGE RACKS

Quite new. Made of twisted iron. Very strong, yet light and artistic. In nests of 2, *per doz.* nests, *i.e.* 2 doz. racks, 20/-

CARBOLIC TOOTH POWDER

Small size .. .. .. *Per doz.* 2/3
Large „ .. .. .. „ 4 -

ROSE TOOTH POWDER *Per doz.* 2/6

One Gross Orders printed with Customer's own Name and Address free.

NEW CAMERA

5 - only Retail Price.
45/- *per doz.* Wholesale.

Order the "CROWN" Camera. Complete with 2 View Finders, 2 Dark Slides, Chemicals, Dry Plates, Handbook, and Weatherproof outer case.

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5/- per Gross, carriage paid. Cash must accompany order.

Samples of Machine-made Fly Papers free from } CHRISTY STRONG, READING.

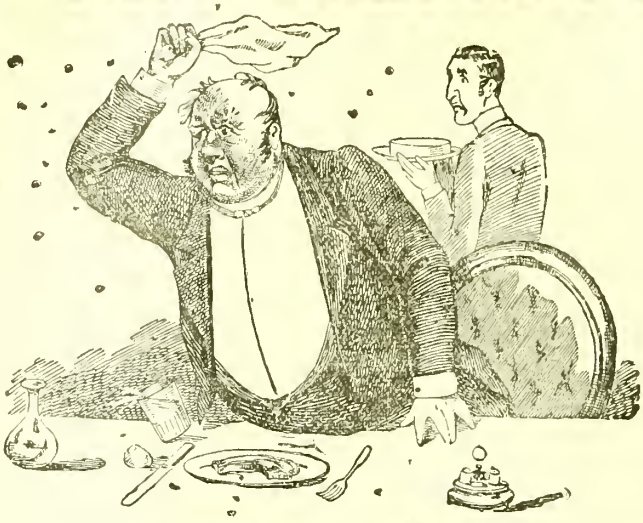
The ORIGINAL and by far the BEST Sticky Fly Paper in the Market.

THE "FLY CEMETERY"

Catches more flies in a day than the old-fashioned Papers do in a week.

Beware of the many spurious imitations in the Market, which for the most part disappoint the purchaser.

Retail Price One Penny.



Well known in every Household in the Kingdom.

Bears large Profit.

Sold by all the leading Wholesale Houses in the Trade.

Liberal Terms.

Retail Price One Penny.

Manufacturers—TUNBRIDGE & WRIGHT, READING.

North of England Depot—4 Gallowgate, Newcastle-on-Tyne. Telegrams—"Flies Reading."

THE GREAT AND MARVELLOUS

INSECT DESTROYER.

Entirely different from any other Beetle or Flea Powder.

"VIKO" will kill Cockroaches.
"VIKO" will kill Moths.
"VIKO" will kill Fleas.
"VIKO" will kill Bugs.
"VIKO" will kill Mosquitoes.
"VIKO" will kill Ants.
"VIKO" will kill all Insects.
"VIKO" will *not* kill Dogs.
"VIKO" will *not* kill Cats.

REGISTERED.

"VIKO" as a preventive against Moth is unrivalled. It has no equal. If sprinkled amongst Furs and Clothes instantly destroys any existing Insect Life, and ensures perfect freedom from a return of the pest.

Its effect upon Insect Life is simply marvellous.

Sold in 3d., 6d., & 1s. Tins.

SOLE PROPRIETORS—

TUNBRIDGE & WRIGHT, READING.

Manufacturers of the "World-Famed FLY CEMETERY."

DEALERS IN PATENT MEDICINES

Should always stock this preparation, which has the largest sale of any Smelling Bottle in the world.

It is well advertised, sells at sight, and bears a good profit.

Sent out in Fancy Cardboard Cases containing half a dozen Bottles.

Showcards and Handbills from

MACKENZIE'S CURE DEPOT, READING.

FLIES (1897) FLIES

MARSHALLS, LTD.

HEAD OFFICE { 27 RED LION SQ., LONDON, W.C.

WORKS { HENFIELD, SUSSEX.

BRANCHES.

PARIS - - - 27 RUE TRONCHET, 27.
BELGIUM - - GAND.
SWITZERLAND - SCHAFFHAUSEN.
SPAIN - - - VITORIA.
VIENNA - - 4 MARGARATHEN STRASSE.
MILAN - - - 3 VIA ST. MARGHERITA.

NEW YORK AND MONTREAL.

IMPORTANT NOTICE!

We beg to remind our friends that the season is at hand, and to obviate any chance of having to wait supplies, suggest ORDERS should be placed AT ONCE for forward delivery.

WHY YOU SHOULD STOCK MARSHALL'S "REEL" FLY CATCHER.

Sells at sight with Large Profit to you.
Catches more Flies than Sticky Papers.
Once supplied, Customers bring others.
Clean to use and NOT unsightly.
Show Cards and Handbills supplied ad lib.

ALL COMMUNICATIONS TO BE SENT DIRECT TO

Head Office—27 RED LION SQUARE, LONDON, W.C.

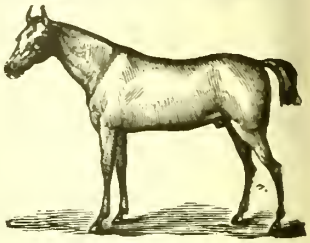
A VALUABLE AGENCY!!!

BIRD'S BOTANIC ESSENCE

(REGISTERED TRADE MARK).

THE CERTAIN CURE

For Curbs, Splints, Spavins, Strains in the Back Sinews, Windgalls, Capped Hocks, Sore Throats, &c., in Horses.



As used in the Stables of the Royal Families, Nobility, the leading Trainers, and largest Horse Owners throughout the World for over 60 years.

Obtains a large sale (and affords a handsome profit) wherever introduced. May be procured of all Wholesale Houses, or direct from Sole Proprietors—

BIRD & STOREY, 42 Castle Street East, Oxford Street, **LONDON, W.**

SHEEP DIPS. For "Information Wanted,'

WRITE TO **B. B. HARESCEUGH & CO., Wellington St., LEEDS,**

Who supply Chemists with any of the following preparations packed in their own name:—

Arsenical Powder Dip; Arsenical Paste Dip; Non-Pois. Paste Dip and Fluid Dip; Horse and Cattle Washes; Paste and Fluid; Maggott Lotion; Mange Liniment; Dog Soap; Carbolic Powder; Carbolic Acid; Carbolic Soft Soap.

DISINFECTANTS, BOTH POWDERS AND FLUIDS, IN BULK. PRICES ON APPLICATION. ESTABLISHED 1860.

NO CURE, **G. F. DAWES' FOOT ROT PREVENTION AND CURE.** NO PAY.

DAWES' is the only genuine guaranteed cure ever offered for sale.
DAWES' is the only cure that leaves the hoof and foot soft and healthy.

£3,000 has been offered for G. F. DAWES' UNPATENTED RECEIPT for making his famous FOOT-ROT PREVENTION and CURE.
Certain Cure for Thrush in Horses' Feet, Cracked Heels, and Grease.

"Heathfield Modbury, S. Devon, September 19, 1895. Dear Sir,—I find your Foot-Rot Cure to be very good. Please send me on another Pot. herein enclose Postal Order for the two Pots. Yours truly, JOHN ANDREWS."

Sold in Brown Pots only, 3s. and 1s. 6d. each, sufficient to dress 80 and 40 Sheep. To be obtained of all Chemists in the United Kingdom. Wholesale from Manufactory, Bury St. Edmunds; SANGER & SONS. W. SUTTON & CO., LONDON; SMITH & SONS, Wholesale Druggists, NORWICH; and through most Wholesale Houses.

DAY, SON & HEWITT,

Largest Makers in the World of

HORSE AND CATTLE MEDICINES

For Kicks, Cuts, Bruises, Sore Withers, Swellings Strains of Ligaments and Tendons, Saddle Galls &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

Price 2/6, 3/6, and 7/- per Bottle.

For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for Cleansing and checking Feverish symptoms in Cows and Ewes after Parturition, rendering the milk copious, pure, and wholesome. It acts as a safe preventive of milk Fever.

Price (Cows), 13/- per doz. box; (Ewes), 3/6 per doz. 3-doz. box, 10/-

Complete in 3 sizes. Sent Carriage Paid.

Prices—
£6 6s., £2 16s. 6d., and £1 8s. 9d.

Liberal Discounts to Agents and Foreign Buyers.

Trade Terms and full particulars on application.

Attractive Showcards and Handbills sent with each order.

A sure remedy for the Fret, Colic or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhœa in Horses. Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.

Price 1/9 per Bottle. 20/- per doz.

For Blood Disorders in Horses, Eczema, Surfeits, Nettle-rash, Ringworm, Itching, Ill-Condition, Off-Appetite, Staring Coat, and Sluggishness. Invaluable for Sterility or Barrenness in Horses and Mares, by virtue of its Phosphoric and other stimulating ingredients. Contains no injurious drug and can be given at all times to all breeds of horses without stopping their work.

Price 5/6 per doz. Packets; 3-doz. 15/-

Sold also at reduced rates in Tins 10/6 and £1 each.

Royal Animal Medicine Manufactory, 22 DORSET STREET, LONDON, W. [Established 1833.]

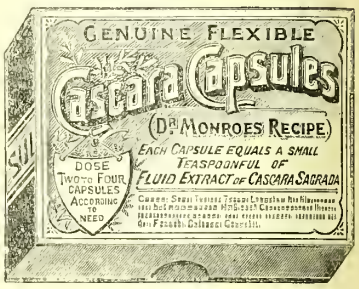
FOUR

FAVOURITES

FLEXIBLE CAPSULES

Warranted Absolutely Pure and Perfectly Soluble.

A



C

		Per Doz. Boxes.	Per 1,000 Capsules.
CASCARA SAGRADA	in Square Boxes, as Fig. C ...	6/6 ...	18/-
CASTOR OIL	in Oval Boxes, as Fig. B	5 6 ...	11/-
COD LIVER OIL	ditto ditto	5/6 ...	11/-
COPAIBA	ditto ditto	5/6 ...	10/6
COPAIBA and CUBEBS	ditto ditto	8/- ...	17/6
COPAIBA, CUBEBS, and BUCHU	ditto ditto	9/- ...	18/-
COPAIBA, CUBEBS, and SANTAL	ditto ditto	12 6 ...	25/-
SANTAL OIL (English)	in Round Tins, as Fig. A	15/- ...	38/-
TURPENTINE	in Oval Boxes, as Fig. B	5/- ...	10/-

Chemist's own Name and Address Free on orders of not less than 6 doz. one kind, or Assorted.

EXTRA QUALITY WHITE FLINT

DISPENSING BOTTLES.

With Rounded Corners, and either Plain or Graduated.

WARRANTED ENGLISH MADE.

These Bottles are made of the finest and purest white flint, and are guaranteed absolutely accurate, and the price in original crates of 6 gross 6-oz. and 8-oz., one size or assorted, is 12/- per gross net, carriage paid to any Railway Station or Port in Great Britain and Ireland. Less quantities will be 2/- per gross extra: prices of other sizes in proportion. Chemist's own name and address on free; part cost of Name-plates, 5/- each.

Sample series of Dispensing Bottles, showing the various qualities and also styles of lettering, sent post free to any part of Great Britain and Ireland on receipt of 9 stamps (which merely defrays postage), and to any part of the world on receipt of 3*s* 6*d*.

One of our Friends say:—"In these dreadful days of cutting, our only hope is Dispensing; and as the public invariably judge the contents of a bottle of medicine by the style and finish of the bottle, wrapper, label &c., &c., who would use a common green bottle when a first-rate white flint one only costs a penny."

AYRTON & SAUNDERS,

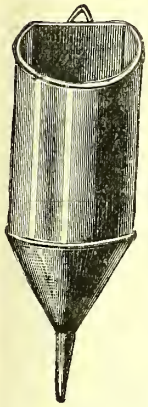
LIVERPOOL.

Postal Address—	Postal Box—	Telephone—	Telegraphic Address—
Ayrton & Saunders, Liverpool.	47.	423.	"Sundries Liverpool."

A LITRE REPRESENTS $1\frac{3}{4}$ PINTS.

DOUCHES.

SPECIAL TERMS TO SHIPPERS.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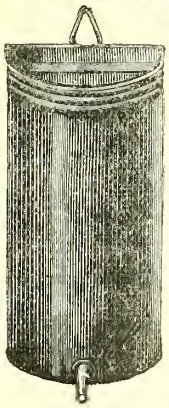


Fig. 2.

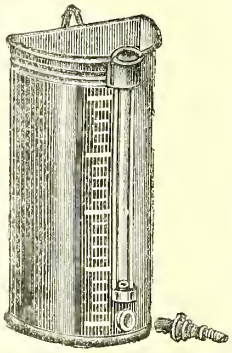


Fig. 3.

Fig. 4.

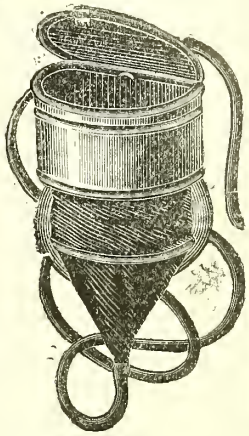


Fig. 6.

These are now having a considerable sale, and Chemists might do worse than stock a small selection. Each Douche is complete in a Box with 5 feet of Best Black Tubing, Vulcanite Stopcock, Vagina and Rectum Pipe.

	½	1	1½	2	3	4	LITRES.
Bronzed Metal, as Fig. 1	36/-	37/-	39/-	40/-	48/-	54/-	per dozen.
" " " 2	36/-	37/-	39/-	40/-	48/-	54/-	"
" " Graduated, as Fig. 3	41/-	42/-	45/-	46/-	54/-	60/-	"
Glass, Ungraduated, as Fig. 4	48/-	52/-	56/-	60/-	66/-	72/-	"
" Graduated, as Fig. 4	54/-	58/-	63/-	69/-	78/-	84/-	"
Nickel Plated, as Figs. 1 and 2	42/-	45/-	48/-	52/-	60/-	72/-	"
Pure Black Rubber, suitable for Travelling, complete in Cedar Box, capacity 2 Litres						60/-	"
" " as Fig. 6, complete in Bronze Metal Case, capacity 2 Litres						72/-	"

Guaranteed Absolutely Pure.

MENTHOL CONES

SPECIAL TERMS TO SHIPPERS.

We import the MENTHOL direct from Japan, mould it in our own Laboratory, turn the BOXWOOD CASES in our own Factory, and also manufacture the CARDBOARD OUTERS containing them in our own Box Factory—thus are in a position to supply them on the very best possible terms.

Fig. 1.

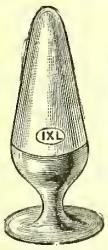


Fig. 3.

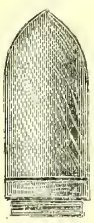
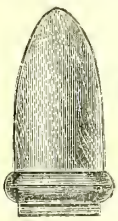


Fig. 4.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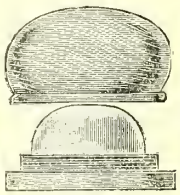
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Fig. 7.

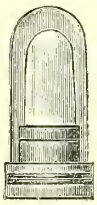


Fig. 8.

Fig. 9.

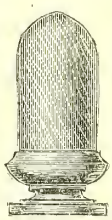


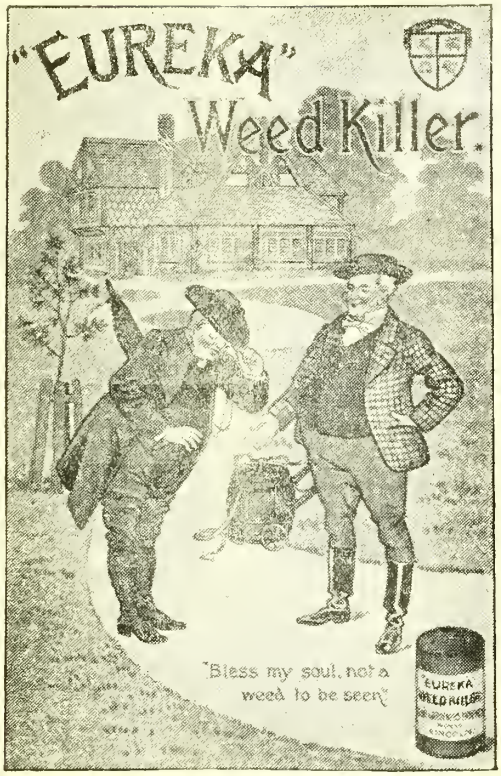
Fig. 10.

Fig. 11.

No. 0	...	As Fig. 1	...	per doz.	–/8	No. 9	...	As Fig. 4	...	per doz.	4/–	No. 18	...	As Fig. 7	... per doz. 7/–
1	...	—	...	"	1/4	" 10	...	" 10	...	"	4/–	" 19	...	" 5	... " 8/–
2	...	" 3	...	"	2/–	" 11	...	" 11	...	"	4/–	" 20	...	" 10	... " 8/–
3	...	" 4	...	"	2/3	" 12	...	" 6	...	"	4/–	" 21	...	" 6	... " 8/–
4	...	" 4	...	"	3/–	" 13	...	—	...	"	4/–	" 22	...	—	... " 8/–
5	...	" 6	...	"	2/9	" 14	...	—	...	"	6/–	" 23	...	" 11	... " 8/–
6	...	" 7	...	"	3/6	" 15	...	" 6	...	"	6/–	" 24	...	" 5	... " 16/–
7	...	" 8	...	"	4/–	" 16	...	" 4	...	"	6/–	" 25	...	" 10	... " 16/–
8	...	" 9	...	"	4/–	" 17	...	" 10	...	"	6/–	" 26	...	—	... " 42/–

London Agents—W. EDWARDS & SON, 157 Queen Victoria Street, E.C.

AYRTON & SAUNDERS,
LIVERPOOL.



"EUREKA."
"EUREKA."
"EUREKA."
WEED KILLER.
WEED KILLER.
WEED KILLER.

"EUREKA" WEED KILLER

Most Improved, Uniform and Effective. Strong, Safe, and Attractive Packages.

POWDER WEED KILLER.

Highly Concentrated. Perfectly Soluble. Guaranteed Effective. All Tins free.
1/= Tin makes 12 gallons Weed Killer.
1/9 ,, 25 ,, ,,

LIQUID WEED KILLER.

Double Strength, mixes 1 Gallon to 50 Gallons Water. Advantageous Prices.

PLEASE NOTE.—The "Eureka" Weed Killers are sold by Chemists all over the Kingdom, and are recognised as the MOST SUITABLE for stocking and selling.

LIBERAL TERMS. ATTRACTIVE PRINTED MATTER. WRITE FOR SAMPLES AND PARTICULARS.

HAYWARD'S DISINFECTANTS.

Please write for Samples, Prices, and Analysts' Reports.

TOMLINSON & HAYWARD,

MINT STREET CHEMICAL WORKS, **LINCOLN.**

ESTABLISHED 1842.

Telephone Number, 1852. Telegraphic Address—CHEMICUS LONDON.

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Lofthouse & Saltmer
May & Baker, Lim.
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Benger's Food
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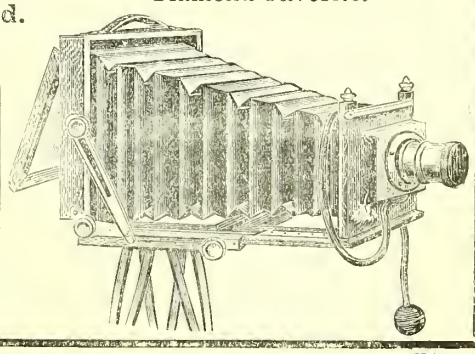

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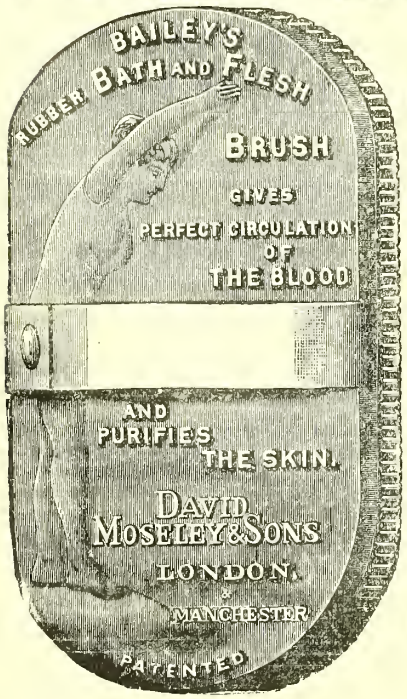

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ETHESDA (SPARKLING)	ALKALINE	11/6	..	..	..	..	..
IG RAPIDS	ALTERATIVE	48/-	20/-	..	..	..	..
ILIN (SAUERBRUN)	TABLE WATER	9/-	..	50	36/-	..	..
IRMENSOORF	SALINE, APERIENT	12/-	..	50	48/-	..	..
OURBOULE (LA)	ARSEN., FERRUGINOUS	11/-	..	50	42/-	..	..
USSANG	CHALYBEATE	7/-	..	50	28/-	..	..
ARLSBAD	ALKALINE, LITHIATEO	12/-	..	50	46/-	..	..
ONDAL	SALINE, APERIENT	..	14/-	..	..	50	56/-
ONTREXÉVILLE	ALKALINE	9/-	..	50	35/-	..	..
MS	ALKALINE, SALINE	7/-	..	50	28/-	..	..
VIAN	ALKALINE, GASEOUS	8/6	..	60	40/-	..	..
ACHINGEN	ALKALINE, CHALYBEATE	7/6	..	50	29/-	..	..
LITWICK	FERRUGINOUS	24/-	15/-	..	..	..	..
RIEORICHSHALL	SALINE, APERIENT	13/-	10/-	25	25/-	50	40/-
FRANZ-JOSEF	SALINE, APERIENT	12/-	10/-	25	22/6	50	35/-
IESSHUBLER	ALKALINE	8/-	5/-	50	30/-	100	38/-
OMBURG	SALINE, CHALYBEATE	12/-	..	50	48/-	..	..
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OHANNIS	TABLE WATER, GASEOUS	5/6	4/-	50	21/-	100	32/6
ISSENGEN	SALINE, SULPHUROUS	11/-	..	50	45/-	..	..

NAME	PROPERTIES	Per Doz. Bots.	Per Doz. ½ Bots.	Original Pkgs. Bottles	Original Pkgs. Bottles	Original Pkgs. ½ Bots.	Original Pkgs. ½ Bots.
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MARIENBAO	ALKALINE, CHALYBEATE	10/-	..	50	38/-	..	..
MISSISQUOI	SULPHUROUS	25/-	..	24	48/-	..	..
OBERBRUNNEN	LITHIATEO	9/-	..	50	36/-	..	..
PULLNA	SALINE, APERIENT	12/-	8/-	40	36/-	40	25/-
ROSBACH	TABLE WATER, GASEOUS	5/6	4/-	50	21/-	100	32/6
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ROYAT	SALINE, ARSENICATED	9/-	..	50	34/-	..	..
ST. GALMIER	TABLE WATER	6/-	4/6	50	22/-	100	34/-
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Chemists will find Idris Royal Table Waters a valuable leading line, which, unlike leading lines in general, bear a substantial profit—and attract customers.

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CAMDEN TOWN, LONDON; & SOUTHAMPTON.

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Known, after 25 years' test in the United Kingdom, as the most popular, safest, and best Natural Aperient Water, is now being supplied through the Distributing Wholesale Houses all over Great Britain and Ireland, at prices fixed by the Proprietor, Mr. Andreas Saxlehner, of Budapest, Hungary, which are as follows:—

Per Case of	25 large bottles,	22/6	.....	Per dozen,	12/-
,, ,,	50 small ,,	35/-	.....	,, ,,	10/-
,, ,,	25 large ,,	21/-	Per 10-case lots.		
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For net cash.

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TABLE WATERS

Were first supplied to
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UNRIVALLED for PURITY and QUALITY.

IN ORDINARY BOTTLES AND SYPHONS

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Send for Trade List and Compare Prices.

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(REGISTERED)

The Mineral Water of the Day.

A Pleasant Beverage, superior to all other English and German Mineral Waters. It mollifies and qualifies all spirits; mixes well with wines. Relieves Alcoholic Thirst without depressing the system.

It is a Urate Solvent, and prevents fermentation of food.

One bottle taken every morning on an empty stomach stimulates the Liver, Kidneys, and Skin to healthy action.

Recommended by Medical Men for Sluggish Liver, Gout, Rheumatism, Kidney Complaints, Lumbago, and Sickness.

All who have tried it are delighted with SALLYCO as a Beverage and Remedy.

Retail Price, 5/- doz. on rail.
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WANTED, *Aerated Water Manufacturers all over the world (everywhere 100 miles from London) to bottle* SALLYCO *on special and advantageous terms.*

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Chemists thinking of manufacturing their own aerated waters are invited to apply for the comprehensive illustrated catalogue issued by

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In this list will be found full particulars of everything required for the manufacture of aerated waters of the first class, and of absolute purity. BARNETT & FOSTER have long been recognised as being the leading firm manufacturing this class of goods, and, as such, have been honoured with the commands of the principal houses in the mineral-water trade, including many Chemists and Druggists who have seen the wisdom of manufacturing their own aerated beverages. The superiority of BARNETT & FOSTER'S manufactures has been fully proved by the numerous Prize Medals awarded by the juries of the principal international and other exhibitions held during the last thirty years. ***Forty-four Highest Awards, including Nine Gold Medals,*** have been so Awarded.

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SODA-WATER MACHINE.

For use with the Liquefied Carbonic Acid Gas.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

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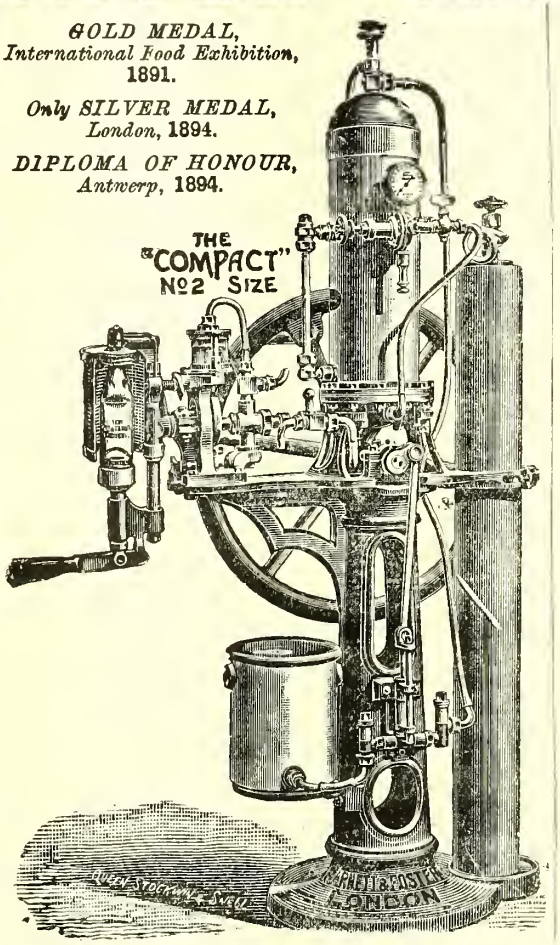

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In use by Leading Chemists in all parts of the United Kingdom.

TWO FILLERS INCLUDED.

No. 1 Size, complete with Turnover and Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code word (*Supremacy*) **£60**
Producing Capacity by Hand-power 600 dozen per day.
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MAKE YOUR OWN ÆRATED WATERS.

This compact Plant only occupies small space, 4 ft. 6 in. long, 2 ft. 8 in. wide, 5 ft. high.

MAKES FINEST WATERS.
60 to 90 Syphons,
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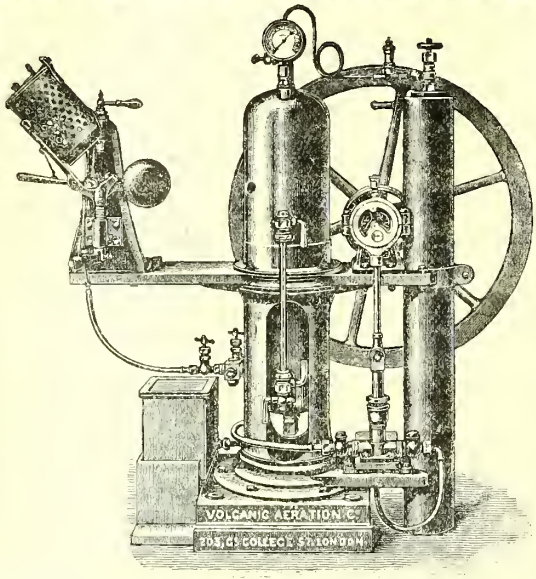
can be filled
IN ONE HOUR!!!

Most Chemists can manage to spare two or three hours per week for this; therefore, extra labour not required.



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Fullest instructions given.

PRICE COMPLETE, as shown, fitted with Syphon Filler or Turnover Bottler or Cork Rack,
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NOTE.—IMPORTANT OFFER.—This Plant may be had on hire to test it for 12 months, and if at the end of 3 months Customer buys it, no Rent is charged.

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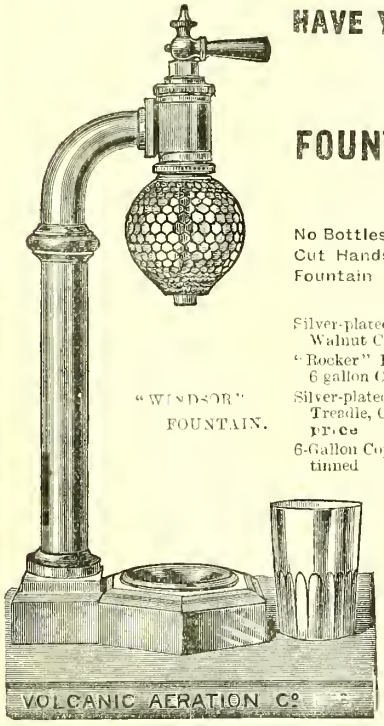

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If so, it would pay you well to invest in one of our Patent

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No Bottles or Boxes required. No Breakage or Cut Hands. The Waters from this Plant and Fountain cannot be surpassed. Aeration Perfect.

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Silver-plated "Windsor" Fountain, on Walnut Cabinet	£13 0 0
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The Machines and the Gas Tubes for same can be sent to any part of the World, and the Tubes refilled when required. The cost of production is so little that it will surprise you.

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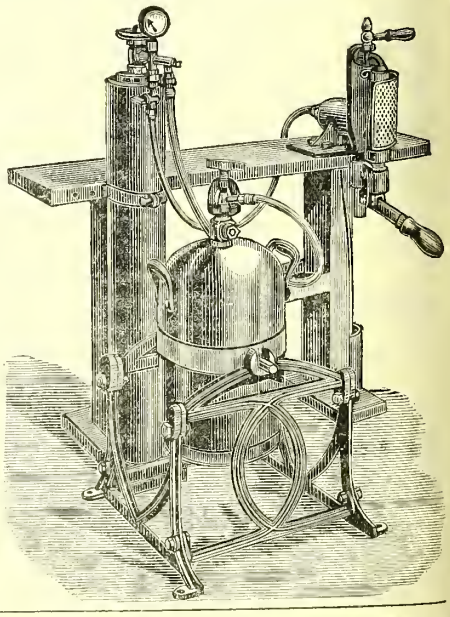

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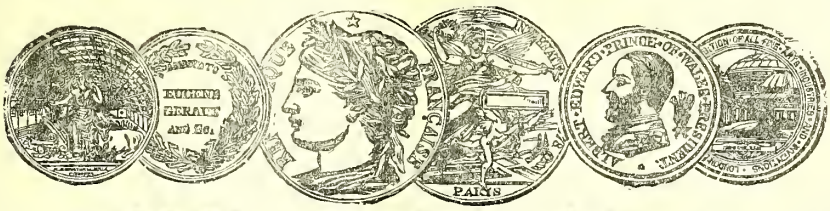

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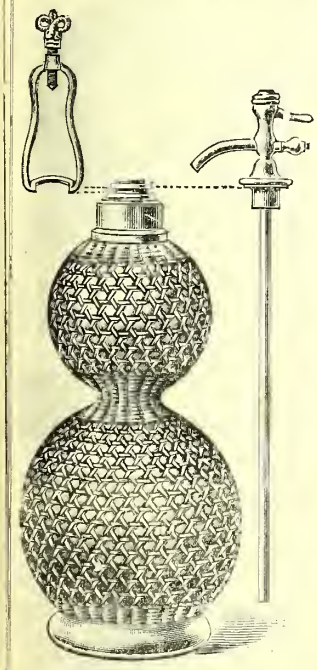
The Premier Manufacturers in the United Kingdom.



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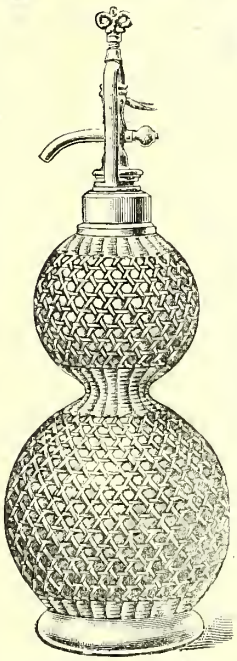

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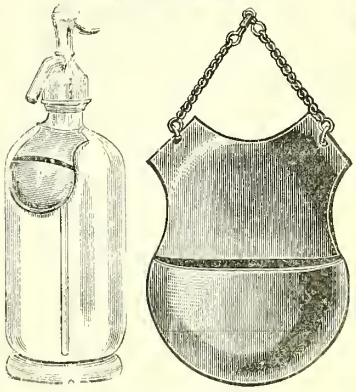
GREATEST NOVELTY OF THE DAY.

NEW PATENT DRIP CATCHER FOR SYPHONS.



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Wholesale Price per dozen: Nickel-plate, 10/-; Silver-plated, 13/-. *Discount for quantities.*

ORDINARY SYPHONS:
Heads Pure Tin, Burnished, Nickelled, and Silvered. Vases of extra strength, in all colours, ornamentally engraved in various sizes from 18 to 50 oz.

PRICES.

Short Lever.	Per doz.	Long Lever.	Per doz.
White Glass ..	18/-	White Glass ..	18/9
Coloured Glass	19/-	Coloured Glass	19/6

In quantities of ONE GROSS.

WHOLESALE PRICES.

3 pint, wire covered	11/-	3 pint, cane covered	12/-	With silver-plated tops, extra 5/-.
5 " " "	14/9	5 " " "	15/9	
8 " " "	22/6	8 " " "	25/-	

POWDERS FOR ABOVE. 3 pint, in handsome labelled Boxes, containing 12 Charges, per doz. 17/-; 5 " " " " " " 24/-; 8 " " " " " " 38/-

DISCOUNT ALLOWED OFF FOR QUANTITIES.

Every Chemist should see this New Invention before ordering any more ordinary Screw Tops. Our Ordinary Seltzogenes are now fitted with this great improvement at a trifling extra cost.

LATEST NEW PATENT SYPHONS

With Ebonite Fittings, preventing all metal contact in waters and not breakable.

We can confidently recommend this Syphon as the most perfect ever made.

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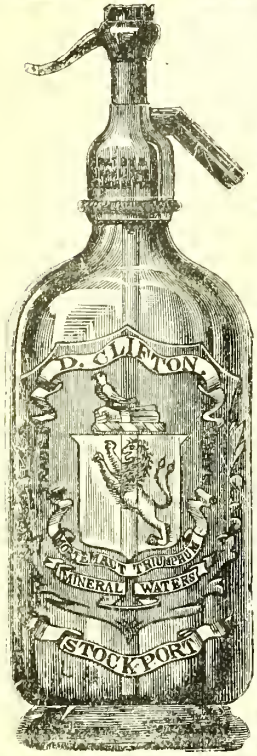

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SYPHONS — 1/6, 1/8, and 1/10 each.

SELTZOGENES.

1	2	3	4	5	6 pints.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.
The tops of these Seltzogenes are made of pure block tin, guaranteed.

American Agen's.—For New York and East, WM. G. SMITHERS, 11 Duane St., New York.
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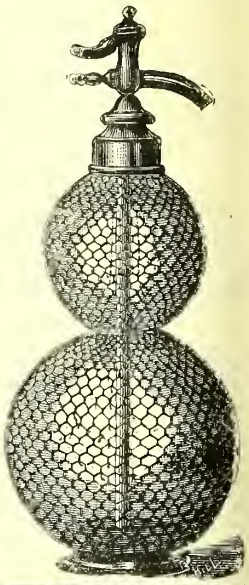
All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



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PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

A COMPLETE APPARATUS, CAPABLE OF PRODUCING OVER

300 DOZ. BOTTLES

of Aerated Water per day, at a minimum of cost, from

£20.

NO DANGER. NO MESS.

SODA-WATER MACHINERY

BOTTLES, SYPHONS, AND ALL APPLIANCES FOR THE TRADE.

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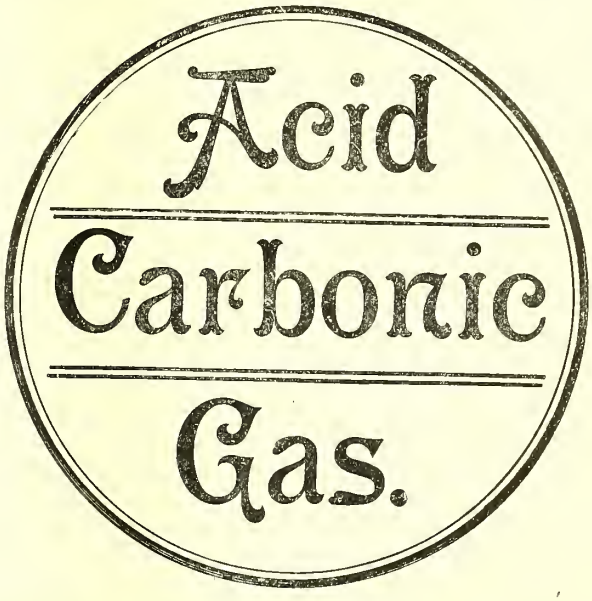

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Only ONE in each Town.

WINE LICENCES.—We pay the licence for our agents; we give 33⅓ discount, sample doctors, bill towns, give sole agency and newspaper advertisement; one agent sold 48 doz. in eleven months; send for circular; secure agency White's Gold Medal Coca Wine. S. B. White, A.Ph.S., Leicester.

Why not YOU?

HOLY- -ROOD

TABLE WATER.

Shown by analysis to be **equal** to the **best imported,** and is **FAR MORE ECONOMICAL.**

Highly Commended by LEADING MEDICAL AUTHORITIES

"It is a well aërated and pleasant Table Water, without a trace of bitterness."—*British Medical Journal.*

J. F. MACFARLAN & CO.
Abbeyhill Chemical Works,
EDINBURGH.

AND OTHER

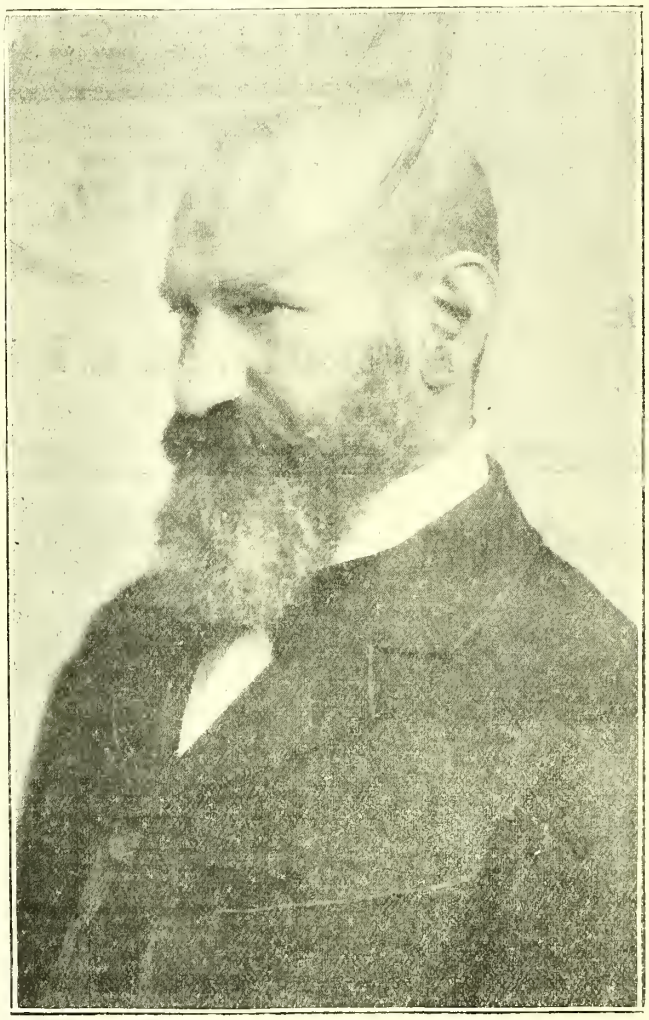
AERATED TABLE WATERS.

W. A. ROSS & SONS, LTD.
BELFAST.

A FAMOUS HUNGARIAN SPRING.

[*FROM "LIFE," MARCH* 2, 1897.]

During my visit last summer to Budapest, where the Hungarian Milennial Exhibition put forward such a rich display of the national resources, I found one of by no means the least interesting portions of the Exhibition was devoted to the Balneological Section, where could be seen admirably set forth a complete presentment of the various picturesque health-resorts and watering-places of Hungary. Here, without the fatigue of climbing huge mountains or undertaking lengthy journeys, could be seen an endless selection of delightful views, depicting of the various spots depicted in all their romantic graneur. What, however, particularly attracted my attention in the section was an imposing pavilion, crected by the proprietor of the far-famed Franz Josef natural aperient spring. Sumptuously and luxuriously fitted up as a reading-room, the pavilion was supplied with a complete collection of Balneological literature. It was my particular good fortune to meet here Mr. Moritz Hirsehler, the official Commissioner for the section. Mr. Hirschler, I found at the very outset, the typical impersonation of a Hungarian gentleman. Noticing that I was a visitor from England, desirous of acquiring what information I could on the far too little-known health-resorts of Hungary, he courteously placed himself at my disposal and conducted me round the seetion, explaining every detail to me with a thoroughly Hungarian enthusiasm. After a first tour, he with characteristic modesty, but pardonable pride, remarked: "Do you not think, Sir, as an English visitor, that we Hungarians have reason to be very proud of the possession of so many beautiful health-resorts? I wish you would tell your countrymen how much they would enjoy a visit to our Magyarland, and how hospitably they would be welcomed." I at once assured Mr. Hirschler how sure I was that if the many Hungarian health-resorts were only better known in England, English visitors would be only too glad to take advantage of their unique advantages, and as for Hungarian hospitality, during my short visit I had had ample occasion to test its warmth and genuineness. My present objeet, however, I hastened to explain, was to gain as much information as possible concerning the several natural aperient waters for which Hungary has of late years established so high a reputation. On this point I knew that he, as Commissioner of the section, could afford me all the details I required. Mr Hirschler smiled as he informed me that he ought to know something of the matter since he himself owned an aperient spring. I immediately begged him to tell me all about the spring in question. This, however, Mr. Hirschler, with characteristic frankness, declined at the outset, urging that his official position demanded strict impartiality, and he immediately proceeded to expatiate upon the merits of a number of various aperient springs scattered throughout Hungary. I took advantage of a pause to press Mr. Hirschler to kindly let me know the name of the spring which he had stated he owned, and then learned that it was "The Franz Josef." "A very well-known spring in England," I responded. This, Mr. Hirschler explained, was not surprising, when it is stated that during the past twenty years literally millions of bottles of the Franz Josef waters have been exported to England. Pressing Mr. Hirschler to give me more particulars concerning this famous spring, I elicited various interesting facts. On the subject whether the Franz Josef is superior to any other Hungarian aperient water, Mr. Hirschler declined personally to speak, but he pointed out that upwards of five hundred medical men alone in England had declared it to be the best aperient water imported into England, whilst in Hungary, where certainly they knew something concerning such matters, the Franz Josef water holds far and away the foremost place. So distinguished an expert as Professor Attfield, the well-known authority of the English Pharmaceutical Society, who has analysed the spring at three different periods over the past twelve years, speaks of the Franz Josef as one of the richest of all aperient waters in the salts of magnesium and sodium, especially the sulphates. The water is certainly less unpalatable than might be expected either from its composition or from the taste of weaker aperient waters. This, it may be noted, is the chief charm of the Franz Josef water; that viz., among the many bitter waters in the market it is far and away the most palatable, and the most reliable in its effects. It is recommended, it seems, by the leading medical authorities of Europe for the cure of: acute and habitual constipation, diseases of



MR. MORITZ HIRSCHLER.

[*See top of other page*

the liver and piles, biliousness and congestive headache, diseases of women and the disorders of pregnancy, obesity and fatty degeneration, and catarrh of the stomach and intestines.

Mr. Hirschler, I learned, has owned the Franz Josef spring for twenty years and more. Mr. Hirschler, I further gathered, belongs to a family which claims to be the oldest mineral-spring owners in Hungary. Many years since Mr. Hirschler was the proprietor of a very old spring in Buda. But after diligent research he came to the very shrewd conclusion that a richer field for such natural sources was to be found at a short distance from the capital, and in course of time, and after prolonged inquiry and investigation, he lighted upon the present Franz Josef spring. How thoroughly he was justified in his expectations is amply proved by the truly marvellous development the spring has taken since its purchase by Mr. Hirschler, who, however, owes the brilliant success that has attended his efforts to the constant attention he has at all times paid to every detail of management and organisation. To such perfection is the system carried that at present no less than 16 000 bottles of the aperient water are bottled, corked, labelled and despatched *daily* by the railway which runs from the spring, while so admirable is the system adopted, that only within the past few years Mr. Hirschler's establishment has been visited by experts from France and Germany, proprietors of springs in those countries, anxious to study for themselves the organisation of the process by which such a wonderful output can be obtained.

I may mention in conclusion that at the Hungarian Millennial Exhibition Mr. Hirschler received the highest and only medal awarded for Hungarian aperient waters, while he was personally decorated by the Emperor-King of Austro-Hungary with the much-coveted Golden Cross of Merit with the insignia of the Crown.

All Chemists, Druggists, and Stores should stock this water, which, being well advertised and really good, is now in great demand. The prices are the same as those of the other aperient waters yielding in Hungary. Several truckloads of Franz Josef water are despatched every month to the English wholesale merchants.

HIGHEST AWARD AT THE INTERNATIONAL EXHIBITION, LONDON, 1885.
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"Have an established reputation."—*Nonconformist.*
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Price Lists and other information sent post free on application to the Manufacturers—W. BECKETT, SONS & CO., Heywood, Manchester.
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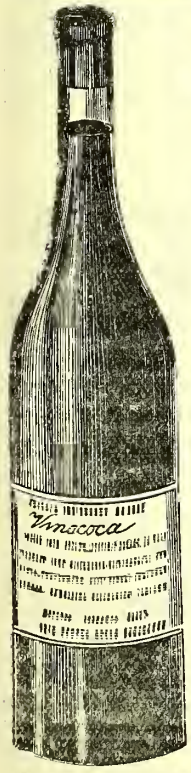

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Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail.

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The best Restorative,
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The best Renewer of Health is

ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR, COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, COCA TOBACCO, &c.

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THE NEW VAPORISER, "OUR OWN."
ENGLISH MADE.

Prices from 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

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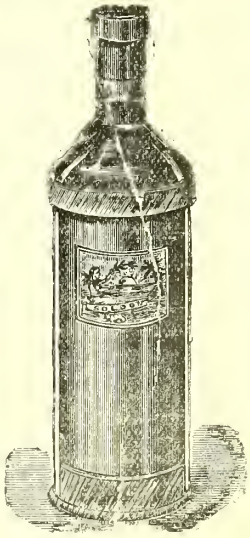

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HIGHLY CONCENTRATED TOILET WATERS

Rose,
Orange, &
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FORTY TIMES
Stronger than the ordinary
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A Luxury in all
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THE
"BEAU IDEAL"
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These Waters, after nearly half-a-century's trial, still maintain their superiority over all others. For the **Toilet and Bath**—especially in India and other hot countries—they are a positive luxury, and the only preparations that will **keep the Skin Clear and Free from Roughness.** Used in the concentrated form they effectually relieve the irritation produced by the bites of mosquitoes or other insects.

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CONCENTRATED WATERS.

ESTABLISHED 1855.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.) ..	4/- per lb.	Aqua Cassiæ Conc.	4/- per lb.	Aqua Menth. Virid. Conc.	4/- per lb.
„ Anethi Concent.	4/- „	„ Flor. Aurant.	8/6 „	„ Pimentæ „	4/- „
„ Anisi „	4/- „	„ „ Sambuci Conc.	8/6 „	„ Pulegii „	4/- „
„ Camphoræ „	4/- „	„ Fœniculi Conc...	4/- „	„ Rosmarini „	4/- „
„ Carui „	4/- „	„ Menth. Pip. Conc.	4/- „	„ Rosæ „	8/6 „
„ Cinnam. Ver. Conc.	6/- „	„ „ Ang. Conc. ..	6/- „	„ „ Virgin „	10/6 „

The above may be had in ¼-lb., ½-lb., or 1-lb. bottles and upwards.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine.

SOLE PROPRIETOR—
BENJAMIN ROBINSON, PENDLETON, MANCHESTER.
SOLD BY MOST OF THE WHOLESALE AND RETAIL CHEMISTS THROUGHOUT THE WORLD.

What "THE CHEMIST AND DRUGGIST" says:—

"Mr. B. Robinson, of Pendleton, whose concentrated waters have been for so many years before the trade, is now putting up some of those waters—the ones that are particularly suitable, such as rose-water, orange flower water, and elder-flower water—in specially attractive form for sale to the public as additions to the bath. These are offered in ½-pint stoppered bottles, with tasteful labels, on which a nymph in the penultimate step of preparing for her bath is represented. A row of the bottles will look pretty in a chemist's shop, and will certainly tempt the luxuriously inclined."

APENTA WATER.

In view of the recent decision in the Court of Chancery with reference to the use of the word "Hunyadi" in connection with Mineral Water, THE APOLLINARIS COMPANY, LIMITED, beg to inform the Trade that they will be pleased to exchange any stock of APENTA WATER, bearing the word "Hunyadi" on the labels and capsules, for APENTA WATER with the new labels and capsules, from which the word "Hunyadi" has been omitted.

SOLE IMPORTERS:

THE APOLLINARIS COMPANY, LIM.

4 Stratford Place, Oxford Street, London, W.

THE BERKEFELD FILTER.

"These Filters represent the greatest progress made in the construction of Filters during the last 10 years."—Dr. Plagge.

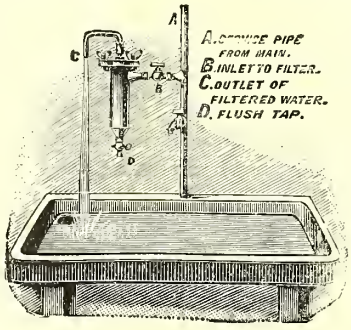
In the Berkefeld Filter the filtering medium is in the form of hollow cylinders or candles of various sizes, made of Kieselguhr, a substance which, on account of its enormous porosity, consisting, as it does, of the silicious skeletons of diatoms, is an ideal filtering medium.

The advantages claimed for the Berkefeld Filters are:—

1.—They are simple in construction, and can be easily cleaned and sterilised.

2.—The filtrate is absolutely free from any suspended matter and from germs, provided proper attention is paid to regular cleaning and sterilising.

3.—They give an output of sterile filtrate from 5 to 10 times larger than any other germ-proof filter.



Filter (as sketch) to attach to service-pipe	...	... £2 2 0
Smaller size	...	... 1 5 0
Glass Table Filters from		... 0 8 9

Chemists will find these Filters a profitable line, and one they can confidentially recommend to their customers.

Counter Filters specially adapted for Chemists doing a trade in Saline and Summer Drinks.

NO MINERAL WATER PLANT COMPLETE WITHOUT A

Berkefeld Filter.

FULL ILLUSTRATED LIST AND TRADE TERMS ON APPLICATION.

CORRESPONDENCE AND VISIT TO SHOWROOMS INVITED.

THE BERKEFELD FILTER CO., LIMITED, 121 OXFORD STREET, LONDON, W.

MASON'S EXTRACTS

FOR MAKING NON-INTOXICATING BEVERAGES.

EXTRACT OF HERBS
" DANDELION
" SARSAPARILLA
" HOPS
EXTRACT OF GINGER ALE
" GINGER
LEMONINE
CIDERINE
HOREHOUNDINE
FOAMINE
WINTER EXTRACT

The above require the addition of sugar, yeast, and water, as directions, and are ready for use in a few hours.

MASON'S WINE ESSENCES.

GINGER
RASPBERRY
COWSLIP
STRAWBERRY
ORANGE
BLACK CURRANT
RED CURRANT
LEMON
LIME FRUIT
JARGONELLE
QUININE
PINE APPLE
SARSAPARILLA
LEMON SQUASH
CHERRY
PEPPERMINT
PORT
SHERRY
CLOVES
ELDERBERRY
DAMSON
RAISIN
GOOSEBERRY
"WARMINE"

These require the addition of sugar and water only, and are ready for immediate use.

COMPOSITION ESSENCE.

A Superior Article, sold in Bulk. Prices and Sample on Application.

MEDICINAL HERBS IN PACKETS.

The Finest Herbs, and neatly put up. Send for Prices and Samples.

HANDBILLS, SHOWCARDS, &c., ARE SUPPLIED WITH ALL GOODS.

Sole Makers—NEWBALL & MASON, NOTTINGHAM.

AGENTS—Adelaide and Fremantle: Messrs. D. & J. FOWLER: Melbourne and Sydney: GOLLIN & CO.: and all Wholesale Houses.

MASON'S EXTRACT of HERBS

Makes the Finest Beverage in the World.

Good! it's Mason's.

FOR MAKING
NON-INTOXICATING BEER

IMITATED, BUT NOT EQUALLED.

One Table-spoonful of Mason's Extract of Herbs makes One Gallon of splendid Beer.

4 GOLD MEDALS

Do not be persuaded to buy any other kind, as the market is now flooded with vile rubbish, most of which contain no Herbs at all, and will not produce the same result. We guarantee ours to be COMPOSED OF HERBS.

HANDBILLS, SHOWCARDS, &c., ON RECEIPT OF BUSINESS CARD.

SOLE MAKERS—

NEWBALL & MASON

Telegrams—"Extract Nottingham."] **NOTTINGHAM.** [Telephone No. 1532.

AGENTS WANTED.

2 NEW DEPARTURES!

If you undertake in 12 months to do **£15 worth** of business in **HOLLOWAY'S COCA WINE,** we shall have pleasure in **Paying your Licence, £2 10s. 0d.** This includes other Wines such as **Meat and Malt, Invalid Port or Sherry, Kola, Kola and Coca, Quinine, Coca Elixir,** and **Coca Lozenges.**

THIS OFFER EQUALS 50% PROFIT.

33⅓ % DISCOUNT. CARRIAGE PAID. FREE CASES.

Invoice—Sale or Return. Sample your Medical Men.

SOLE AGENCY. LOCAL ADVERTISEMENTS.

Our C.W. Book with your name on creates demand at once. We distribute this for you.

PUZZLE.—Beat these terms.
Better the Quality.
Equal the Style.

From our Bonded Stores at Bristol we can offer the same Wine (duty paid) to those Dealers who prefer putting up their own

COCA WINE,

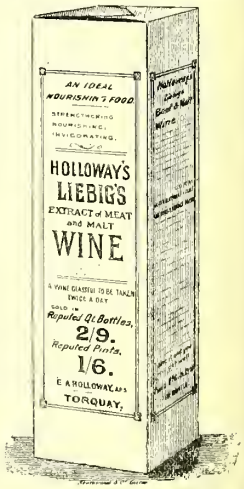
REPUTED PINTS ... 9/- per dozen } Unlabelled, Plain
REPUTED QUARTS ... 17/- „ } Corks & Capsules

Each bottle in straw envelope.

Cases in this instance charged Cost Price. Carriage NOT Paid. In Bulk **6/-** per gallon, or **£8** per Quarter Cask. Casks and Jars extra. Carriage NOT Paid.

N.B.—HOLLOWAY'S C.W. made only from the Leaf is SUPERIOR to any other, and not prepared with CHEAP TARRAGONA. Send for FREE SAMPLE and prove it.

Foreign Correspondence Solicited.



1/6 and 2/9.

ENQUIRIES AND REFERENCES TO

E. A. HOLLOWAY, A.P.S., TORQUAY.

BURROUGH'S
COCA WINE.
RED CROSS
BRAND.

BURROUGH'S RED-CROSS BRAND COCA WINE.

IN BULK
AND
IN BOTTLE.

RED-CROSS BRAND COCA WINE.

IN BULK
AND
IN BOTTLE.

Write for Price List and particulars.

BURROUGH'S RED-CROSS BRAND COCA WINE

Is a Powerful Stimulant.

Prevents excessive fatigue.

Promotes digestion and appetite.

Strengthens the mental and physical powers.

Relieves depression of spirits, hunger, thirst.

Removes unhealthy drowsiness, soothes all forms of neuralgia.

For warding off dyspepsia, sleeplessness, an antidote against worry, fatigue, sea sickness, &c.

Write for Prices, &c.

EXTRACT FROM ANALYST'S CERTIFICATE.

Dr. A. B. GRIFFITHS, F.R.S. (Edin.), F.C.S., 12 Knowle Road, Brixton, S.W., 24th Aug., 1896.

"I hereby certify that I have examined samples of Burrough's Coca Wine, Red Cross Brand, and find that it is made from the leaves of Erythroxylon Coca and sound wine. It is of uniform strength, and contains a large proportion of the alkaloids and active principles of the leaves. This Wine stimulates the nervous system, augments the appetite. It is a cerebral stimulant. Burrough's Coca Wine should be taken while performing great physical or mental work. In conclusion I can conscientiously say that Burrough's 'Red Cross Brand' of Coca Wine is second to none in the market."

A. B. GRIFFITHS.

JAMES BURROUGH, CALE STREET DISTILLERY, CHELSEA, LONDON, S.W.

POINTS ABOUT

COCA-KOLA WINE

With QUININE.

1. It is not liable to excise duty.
2. It is palatable to the taste.
3. It is effectively labelled.
4. It is a certain and powerful tonic.

5. It is extraordinary value.
6. It is without a rival.
7. It is selling wherever introduced.
8. It is not cut in price.

COCA-KOLA WINE is a combination of the powerful stimulating properties of Coca Leaves and Kola Nuts, with the tonic properties of Quinine.

IT IMPARTS TONE AND VIGOUR TO THE WHOLE BODY.

Put up in really first-class style. Bound to attract attention, command sale, and create trade.

In Apollinaris Pints, 8/- per Dozen.

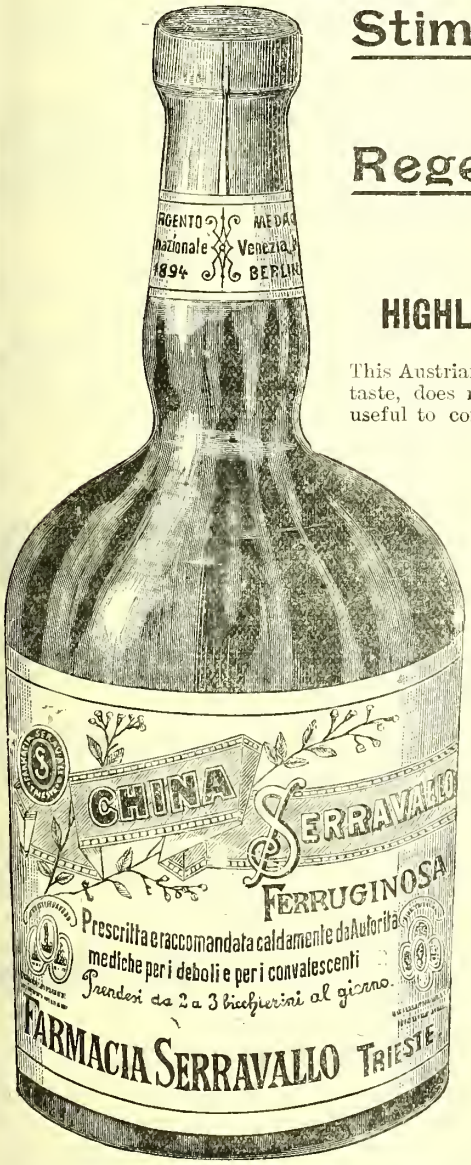
POTTER & CLARKE, WHOLESALE DRUGGISTS, 60, 62, and 64 Artillery Lane, LONDON.

AN IDEAL TONIC.

SERRAVALLO'S

FERRUGINOUS QUININE WINE

OF PERUVIAN BARK AND IRON.



Stimulates the Appetite

Strengthens the Nerves

Regenerates the Blood

Pleasant to the Palate

HIGHLY RECOMMENDED BY MEDICAL AUTHORITIES.

This Austrian Tonic Wine is a highly concentrated, strength-giving food, has no styptic taste, does not disturb the stomach or constipate the bowels, is therefore especially useful to convalescents and those suffering from Anæmia and Indigestion, and after Sea Sickness and in Hot Climates.

AGENTS—

GREAT BRITAIN and IRELAND: ROBERTS & CO., 76 New Bond Street, London, W.
NATAL (South Africa): Natal Drug Co., Durban.
EGYPT: Rossetto & Vicini, Alexandria.
BOMBAY: Kemp & Co. (Limited).
CALCUTTA: Smith, Stanistreet & Co.
MADRAS: W. E. Smith & Co.
LAHORE: E. Plomer & Co.
HYDERABAD (Deccan): A. Abid & Co.
AGRA: A. John & Co.
RANGOON (Burmah): J. Guthrie (Medical Hall).
COLOMBO (Ceylon): R. Starcich.
SINGAPORE: M. Wispauer (Medical Hall).
PENANG: George Town Dispensary.
BANGKOK: B. Grimm & Co.
HONG KONG: A. S. Watson & Co. (Limited).
SHANGHAE: F. Langermann.
TOKYO: M. Saito, Apothecary, 16 Gochome Kojimachi.
HONOLULU: Benson, Smith & Co.
QUEENSLAND: Taylor & Colledge, Brisbane.
NEW SOUTH WALES: The Australian Drug Co. (Limited), Sydney.
GIBRALTAR: Calpe Pharmacy.

J. SERRAVALLO, TRIESTE (AUSTRIA),

PHARMACY AND WHOLESALE FORWARDING HOUSE IN DRUGS. (Founded 1848.)

DIASTASED FARINA FOOD

A New and Very Superior Food for Infants, Delicate Children, and Invalids. The great desideratum of a Food for Infants, Delicate Children, and Invalids is easiness of digestion, simplicity of preparation, and power of restoring strength; for these purposes it is superior to any other Food.

RETAIL PRICE 1/6 PER TIN.

A totally unsolicited Report of a Medical Man's experience with the Diastased Farina Food.

YORKSHIRE, December 2, 1896.

DEAR SIRS,—Since August I have been trying your "Food," and I am well satisfied with the result. Milk is the most perfect food, but when you have to reckon with a low type of stomach, or a poor class of milk, assimilation is imperfect, dyspepsia frequent. The addition of your "Food" prevents the latter and hurries the former. I have had admirable results in the treatment of Phthisis, Chlorosis, Gastric Ulcer, Atonic Dyspepsia, and Neurasthenia.

Manufacturers:—E. BEANES & CO., Hackney Wick, LONDON, E.

SELTZOGENE CHARGES

("MINERAL" BRAND).

A NEW DEPARTURE.

TARTARIC ACID SUPERSEDED

(See this Journal, 19/12/96, page 880).

British Made. Inorganic. No Field for Germ Growths.

BETTER. STRONGER. CHEAPER.

THE SELTZOGENE PATENT CHARGES CO.

ST. HELENS.

Re

COLEMAN'S Wincarnis

COLEMAN'S Crown Imperial Invalid Champagne

COLEMAN'S Coca Wine

COLEMAN'S Wincarnis with Quinine

COLEMAN'S Coca Wine with Quinine

The above Medicated Wines, with the exception of Wincarnis with Quinine and Coca Wine with Quinine, cannot be sold without a Foreign Wine Licence.

Under certain conditions Messrs. COLEMAN & CO., Limited, are prepared to Pay for a Foreign Wine Licence.

FOR PARTICULARS APPLY TO

MESSRS. COLEMAN & CO., LTD.

Wincarnis Works, NORWICH.

FOR INFANTS AND INVALIDS.

KYDDE'S FOOD

IS UNEQUALLED.

KYDDE & CO.

10 SOUTHWARK BRIDGE ROAD, LONDON, S.E.

SPECIAL CHEMISTS' SUGAR

MACFIE & SONS'

PURE GRANULATED,

ENTIRELY FREE FROM COLOURING MATTER.

For making Syrups and other Pharmaceutical purposes.

GUARANTEED PURE CANE SUGAR.

MANUFACTURED ONLY BY

MACFIE & SONS

Sugar Refiners,

LIVERPOOL.

Samples and Quotations from EVANS, SONS & CO., 56 Hanover Street, LIVERPOOL, on application.

SOLE WHOLESALE AGENTS FOR CHEMISTS & DRUGGISTS—

EVANS, SONS & CO., 56 Hanover St., LIVERPOOL.

EVANS, LESCHER & WEBB, 60 Bartholomew Close, LONDON, E.C.

EVANS & SONS (LIMITED), MONTREAL.

Dr Ridge's Food. April, 1897. Dr Ridges Food.

Dr. RIDGE'S

PATENT (COOKED)

FOOD

FOR

Dr Ridge's Food. Dr Ridges Food.

INFANTS and INVALIDS

DR. RIDGE'S FOOD has maintained its supremacy, notwithstanding the many imitations in the market, and still enjoys a larger and readier sale than any other Food, the demand daily increasing. Superior quality, thoroughly cooked, and supplied in a very compressed form.

IN TINS	RETAIL PRICE ...	1*s.* 0*d.*	WHOLESALE	9*s.* 6*d.*	per doz.
	,, ,, ...	2*s.* 6*d.*	,,	22*s.* 0*d.*	,,
	,, ,, ...	5*s.* 6*d.*	,,	48*s.* 0*d.*	,,
	,, ,, ...	10*s.* 6*d.*	,,	96*s.* 0*d.*	,,

DR. RIDGE'S FOOD is also supplied in Packets (for Home Consumption only):—

IN PACKETS	RETAIL PRICE	1*s.* 0*d.*	WHOLESALE	8*s.* 6*d.*	per doz.	in 3 doz. Boxes.
	,, ,,	6*d.*	,,	4*s.* 6*d.*	,,	in 3 & 6 doz. Boxes.
	,, ,,	2*d.*	,,	1*s.* 6*d.*	,,	,, ,,

Delivered Free in London only.

The above Prices apply also to DR. RIDGE'S PREPARED OATMEAL. The above quotations are subject to a discount of 10 per cent. on £5 order, or 15 per cent. on £50 order or upwards. No Discount whatever on orders under £5 in value.

REMITTANCE WITH EVERY ORDER IS NECESSARY

Cheques and Post Office Orders to be made payable to P. J. RUMNEY.

Telegrams: "RIDGE'S FOOD LONDON."

RIDGE & CO.,

FOOD MILLS,

BOLEYN ROAD, LONDON, N.

DEVONSHIRE

CREAM

AS A SUBSTITUTE FOR

COD LIVER OIL.

Retails AT 2/6

A SUBSTITUTE FOR COD LIVER OIL.

"AMBROSIA"

Contains the valuable nutritive and digestive Properties of the best Malted Barley, combined with

Pure Rich Devonshire Cream.

DOSE.—One or two tea-spoonfuls, gradually increased It may be taken in milk, tea, or coffee, or spread on bread like honey.

PREPARED ONLY BY

EVANS, GADD & CO.,
EXETER, DEVON.

Wholesale Price, 22/- dozen nett.

NO CUTTING.

EVANS, GADD & CO.,

EXETER, DEVON.

AWARDS.

GOLD MEDAL, International Health Exhibition, London, 1884.
FIRST ORDER OF MERIT AND MEDAL (Highest Award), Adelaide, 1887.
HIGHEST AWARD, Medical and Sanitary Exhibition, London, 1882.
FIRST ORDER OF MERIT AND MEDAL. Melbourne, 1888.

Directions for use in English, French, or Spanish, as required.

This delicious and highly nutritive Food was awarded the Gold Medal at the International Health Exhibition, London, and has since received a High Award at every Exhibition at which it has been shown. BENGER'S FOOD is well known to leading medical men, and is recommended by them.

The following extracts from the Medical Journals, &c., sufficiently indicate its high character, and the estimation in which it is held alike by the Medical Profession and by the Public:—

The following letter addressed to F. B. BENGER & CO., Ltd., is published by special permission of the Russian Court.

"Balmoral Castle, Scotland,
"September 25, 1896.

"Sirs,—Please forward to Balmoral Castle one dozen 2/6 Tins of BENGER'S FOOD for H.I.M. THE EMPRESS OF RUSSIA, addressed to Miss Coster. We have received the box ordered from Peterhoff. Yours truly, F. COSTER."

The LANCET of March 25th, 1882, says:—
"Would be assimilated with great ease."

The BRITISH MEDICAL JOURNAL, August 25th, 1883, says:—
"Benger's Food has by its excellence established a reputation of its own."

The ILLUSTRATED MEDICAL NEWS, Dec. 22, 1888, says:—
"Benger's Food is a preparation devised on original lines, and which we can speak of in the highest terms. . . . Infants do remarkably well on it, and it is most suitable for many conditions in adults and old people. Amongst other things, we may mention that this food has been found extremely useful in the Summer Diarrhœa met with in some of our Colonies, where the distaste for food and difficulty of digestion are very marked. There is certainly a great future before it."

The LONDON MEDICAL RECORD, March 15, 1882, says:—
"It is palatable and excellent in every way. It is taken readily both by adults and children. We have given it in very many cases with the most marked benefit, patients frequently retaining it after every other food has been rejected. For children who throw up their food in curdled masses it is invaluable."

The JOURNAL DE MÉDICINE DE PARIS, March 17, 1889, says:—
"C'est un exemple heureux de l'application des données de la science à la pratique, et nous ne doutons pas que ce produit ne jouisse bientôt en France de la grande vogue qu'il s'est légitimement acquise en Angleterre."

The HEALTH JOURNAL, November, 1883, says:—
"We direct especial attention to this article because it is a good illustration of the practical application of scientific knowledge to one of the everyday requirements of mankind."

From an Eminent Surgeon.
"After a lengthened experience of Foods, both at home and in India, I consider 'Benger's Food' incomparably superior to any I have ever prescribed."

A Medical Man writes:—
"This particular food is the only one I have been able to take constantly and with advantage. I have prescribed it for others with the best results."

"Champion Lodge, Maldon, Essex,
"May 2nd, 1894.

"Lady Champion de Crespigny presents her compliments to Mr. Benger, and if the enclosed testimonial will be of any use to him, he is quite at liberty to publish it.

"My youngest child was most delicate; he was given up by two doctors They said it would be impossible to rear him. Having tried every kind of milk, I was told of your Food, and used it with the utmost success. He is now a strong boy of five, and had no food of any kind but yours for the first three years.

"(Signed) G. Champion de Crespigny."

A LADY writes:—
"I consider that, humanly speaking, Benger's Food entirely saved baby's life. I had tried four other well-known foods, but he could digest nothing until we began the 'Benger.' He is now rosy and fattening rapidly."

BENGER'S FOOD is sold, in Tins of various sizes, by Chemists, &c., everywhere; and may be obtained through BARCLAY, EDWARDS, SANGER, SUTTON, NEWBERY, and all the leading Wholesale Houses and Shippers, or of the Manufacturers—

F. B. BENGER & CO., LIMITED, OTTER WORKS, MANCHESTER.

98

ANALYSIS OF FOODS

Flesh Forming (Nitrogenous) Natural Salts
Heat & Force Producing (Carbonaceous) Water.

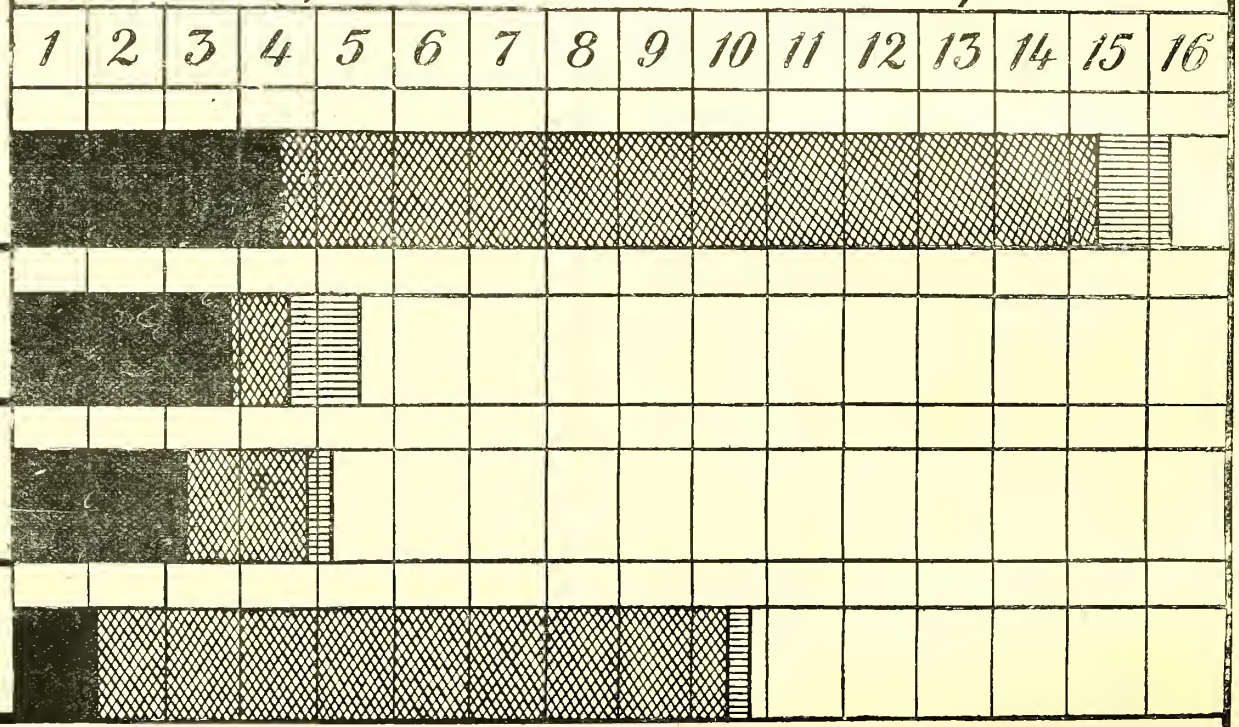
Ounces of above constituents in one pound.

CADBURY'S Cocoa.

Raw Lean Beef & Mutton.

Eggs.

White Bread.



In addition to above, it is interesting to find that One Shillingsworth of CADBURY'S Cocoa contains as much nourishment as can be obtained for Three Shillings spent on some of the best Meat Extracts.

CADBURY'S is absolutely Pure, therefore the Best Cocoa.

The **LANCET** *says*:—"**CADBURY'S Cocoa** *represents the standard of highest purity.*"

Samples and Prices from CADBURY'S, BOURNVILLE, near BIRMINGHAM. London Office and Showroom—2 ROOD LANE, E.C.

DR. TIBBLES' VI-Cocoa

THE WHOLESALE PRICE.

RETAIL PRICE.	PER DOZEN.
6d. Packets (Two Dozen in a box)	5/=
9d. Tins (Two Dozen in a box)	7/6
1/6 Tins (One Dozen in a box)	15/=

DISCOUNTS.

5 per cent. Discount on Orders up to £5.
7½ per cent. Discount on Orders for £5 and upwards.
Terms—Cash within 7 days.
Carriage Paid on Orders value £2 and upwards.

N.B.—The above Discounts are from 3¾ to 6¼ per cent. better than can be obtained from any other source, whilst the merits of DR. TIBBLES' VI-COCOA are far greater than any other similar preparation in the world.

LIMIT OF CUTTING.

The Proprietors hereby give notice to the Trade that the limit of "cutting" prices of DR. TIBBLES' VI-COCOA has been fixed as under:—

6d. Packets to be sold at not less than 5½d.
9d. Tins ,, ,, not less ,, 8½d.
1/6 Tins ,, ,, not less ,, 1/4½

Full Prices to be obtained wherever possible.

FURTHERMORE,

Any Chemist, Grocer, or Stores cutting below these prices will be refused supplies direct from ourselves. And in this connection it is important to note that in £5 lots and upwards no trader in the kingdom, "Wholesale or Retail," can obtain more than the 7½ per cent. discount we offer.

Furthermore, as we pay carriage on orders value £2 and upwards, it will **not be possible to obtain the advantage of this concession, nor that of the exceptional discounts we offer, unless our ruling as to the "cutting" of price is complied with.**

Read the foregoing, send your order to

DR. TIBBLES' VI-Cocoa Ltd.,

SUFFOLK HOUSE, CANNON ST., LONDON, E.C.

And obtain your fair share of the profits that are daily being made by our customers everywhere.

Beer in Bottle.

WHITBREAD & CO.

(LIMITED.)

LONDON COOPER, STOUTS, AND ALES.

SPECIALITIES: Half-crown Stout and India Pale Ale.

IN IMPERIAL PINTS AND HALF-PINTS, CORKED OR SCREW-STOPPERED.

Carriage paid, One Ton Lots, by arrangement with Customer, in accordance with Locality and Carriage Rates.

CHIEF OFFICE AND STORES—

277 GRAY'S INN ROAD, LONDON, W.C.

DEPÔTS—

Weston Street, London, W.C.
Britannia Street, London, W.C.
170 Lewisham Road, London, S.E.
Bell Brewery, Tottenham, N.
Stag Brewery, Enfield.
Dunger Place, New Southgate, N.
The Calls, Leeds.
The Arcade, Barnsley.
M. S. & L. Ry., Sheffield.
21 Great Charles Street, Curzon Hall Vaults, 42 High Street, Birmingham.
The Arches, Pall Mall, Liverpool.
M. S. & L. Ry., Store St., Manchester.
East Wharf, Cardiff.
The Arches, Orchard Street, Newcastle-on-Tyne.

ROBERT BAKER,

SOLE AGENT.

YORKSHIRE RELISH.

CAUTION.

WILLIAM POWELL (Trading as Goodall, Backhouse & Co.)

v.

THE BIRMINGHAM VINEGAR BREWERY COMPANY, LIMITED.

Take notice that on the 29th day of October, 1895, The Honourable Mr. Justice Stirling ordered that the Defendants, their servants and agents, be perpetually restrained by Injunction from using the words **"YORKSHIRE RELISH,"** as descriptive of or in connection with any Sauce or Relish manufactured by them, or Sauce or Relish (not being of the Plaintiff's manufacture) sold or offered for sale by them without clearly distinguishing such Sauce or Relish from the Sauce or Relish of the Plaintiff.

And take notice that the Appeal of the Defendant Company from the above-mentioned Order was on the 31st day of March, 1896, unanimously dismissed with costs by Lords Justices Lindley, Kay, and A. L. Smith.

Dated this 1st day of April, 1896.

J. SEYMOUR SALAMAN,

65 & 66 Chancery Lane, London,

Plaintiff's Solicitor.

SPECIAL NEW LINE

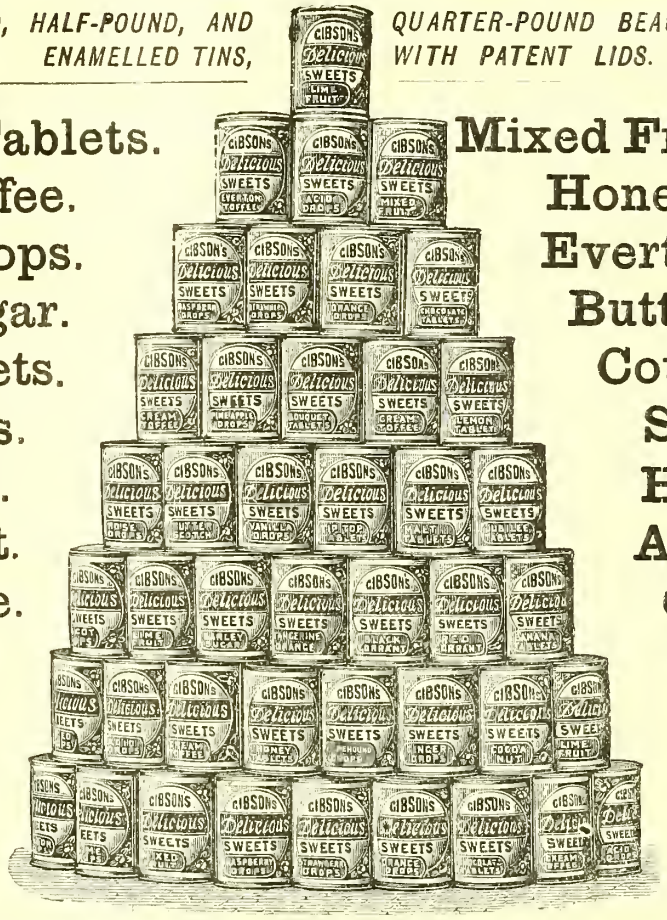
IN

GIBSON'S

CELEBRATED SWEETS.

ONE POUND, HALF-POUND, AND QUARTER-POUND BEAUTIFULLY ENAMELLED TINS, WITH PATENT LIDS.

Bouquet Tablets.
Cream Toffee.
Lemon Drops.
Barley Sugar.
Malt Tablets.
Pear Drops.
Mint Rock.
Lime Fruit.
Pine Apple.
Raspberry.
Damson.
Ginger.
Musk.
&c., &c.



Mixed Fruit Drops.
Honey Tablets.
Everton Toffee.
Butter Scotch.
Cough Drops.
Strawberry.
Horehound.
Acid Drops.
Greengage.
Chocolate.
Orange.
Cherry.
Rose.
&c., &c.

For many years these goods have been shipped abroad only in bottles; now the firm have decided to pack them in 1-lb., ½-lb., and ¼-lb. tins at 7/6, 4/6, and 2/9 per dozen respectively to the Retail trade, with usual discount, special terms being made with Wholesale buyers. Messrs Gibson & Sons believe by offering their **WORLD-RENOWNED BOILED SUGARS** in portable, unbreakable packages, beautifully labelled for Counter show, they will not only enormously increase their own business, but supply a long felt want to buyers abroad, and remove at once the only obstacle standing in the way of everybody being able to stock these goods without the slightest fear of sustaining any personal loss.

Indents may be filled and sent direct to the Works, MANCHESTER, to the Firm's LONDON WAREHOUSE—

1 GLASSHOUSE YARD, ALDERSGATE STREET.

Or to any LONDON SHIPPERS.

THE MOST ECONOMIC, CONVENIENT, & PORTABLE FORM OF SOUP.

LAZENBY'S SOUP SQUARES

(MULLIGATAWNY, GRAVY, JULIENNE, ETC.)

FOR MAKING FRESH SOUP, OR IMPROVING HOME MADE STOCK.
EACH SQUARE WILL PRODUCE

1½ PINTS OF STRONG NUTRITIOUS SOUP

Prepared by E. LAZENBY & SON, Ltd 18, Trinity St., LONDON, S.E.

BRAND & CO.'S MEAT JUICE.

IN BOTTLES,
ric 28/- per dozen,
ss the usual discount.

To H.R.H. The Prince of Wales, The Empress of Germany, &c.

BRAND & CO'S. SPECIALTIES FOR INVALIDS.

CONCENTRATED BEEF TEA, VEAL, MUTTON & CHICKEN BROTHS; TURTLE SOUP & JELLY, CALFS' FOOT JELLY, MEAT LOZENGES

ESSENCES OF BEEF MUTTON VEAL AND CHICKEN

SOLE ADDRESS, 11 LITTLE STANHOPE STREET, MAYFAIR, W.

NESTLE'S MILK.

Condensed SWISS

THE RICHEST IN CREAM.

PERCENTAGE OF BUTTER FAT.

Samples of NESTLE'S MILK bought at random at six different shops, and analysed by Mr. OTTO HEHNER, late President of the Society of Public Analysts, contained AN AVERAGE OF

13·13 per Cent. of BUTTER FAT.

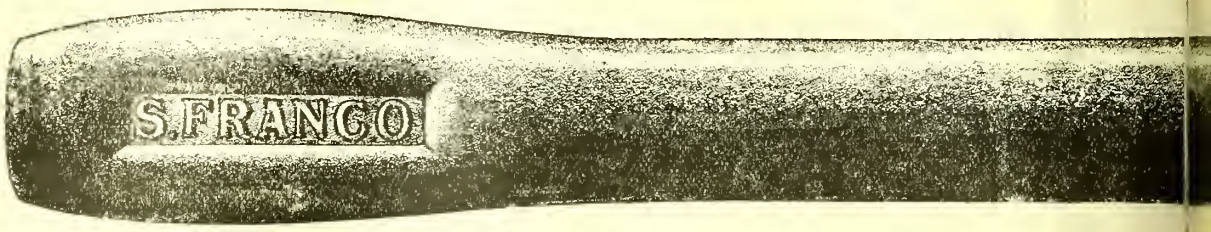
Tins sent free to the Medical Profession on application to HENRI NESTLE, 48 Cannon Street, London, E.C.

103

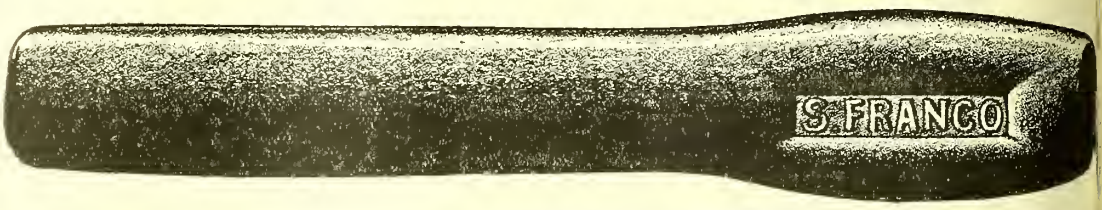
LIQUORICE JUICE IN STICKS

FINEST ITALIAN.

GUARANTEED ABSOLUTELY PURE.



Sticks 4½ to the lb. and 8 to the lb.



SOLE CONSIGNEES:

S. M. FRANKENSTEIN & CO

Dashwood House, 9 New Broad Street, LONDON, E.C.

"LIVE, and LET LIVE."

THE FRAME FOOD CO., LTD., desire that all retailers should have a reasonable, living profit on the sale of **"Frame Food" Preparations.** To ensure this they have fixed minimum retail prices, below which they will not permit their goods to be sold. They also give no **graduated discounts** on large orders, but allow their **highest discount** on purchases of **£2** value and upwards, thus placing all retailers upon the same terms.

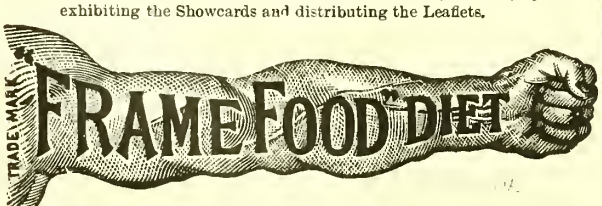
Goods sent carriage **forward.** No Packages charged or to return.

These terms ensure an average **Profit of over 30 per cent.** on goods sold at advertised prices, and of **20 per cent.** at minimum prices.

Write for Trade Terms and Anti-cutting Agreement.

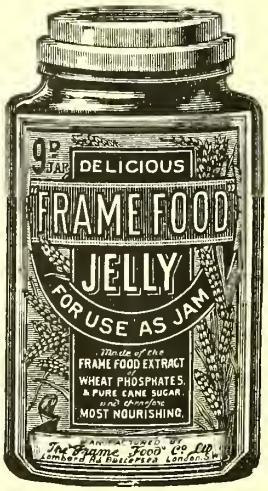
Satisfactory references or cash required for new customers.

An Attractive FRAMED SHOWCARD, and Leaflets with Retailer's printed Address (in red ink), sent Carriage Free on application—(MENTION THIS PAPER). The **Frame Food Co.** trust that retailers will show their appreciation of the Company's efforts to ensure them a reasonable profit on the sale of "Frame Food" Preparations, by exhibiting the Showcards and distributing the Leaflets.



New & Improved Package

LARGER PROFIT TO RETAILERS.



THE FRAME FOOD CO have adopted a new air-tight covered Jar for "Frame Food Jelly, which will ensure it keeping any length of time. In fixing the Retail and Trade Prices of the new package they have taken the opportunity of securing a large margin of Profit to Retailers who will find it to their advantage to recommend the Jelly to their customers.

The 1s. and 7d. size are now withdrawn.

"Frame Food" Jelly possesses the nutritive and digestible properties of Malt Extract and is much cheaper and more palatable.

Advertised Retail Price, 9d.:

Minimum Retail Price, 8½d.

TRADE TERMS ON APPLICATION.

FRAME FOOD CO., LTD., LOMBARD RD., BATTERSEA, LONDON, S.W.

WARRICK

MAKERS of FLEXIBLE CAPSULES.

Best Quality Envelopes. Best Quality Ingredients.

PORTPOOL LANE, GRAY'S INN ROAD, LONDON, W.C.

BROTHERS.

[illegible]ILLABY'S HIGH-CLASS LIQUORICE.

SUPPLIED IN HANDSOME ENAMELLED TINS.

[illegible]nis of FREDERICK DAVIS, Esq., B.[illegible], Member of the Society of Ch[illegible]nists, Newington College of Ch[illegible]nistry, 26 and 28 Newington Ca[illegible]eway, London, S.E.

"Li[illegible]rice Wafers of singular purity, con[illegible]ing [illegible] Liquorice extract and Pectin, pos[illegible]sed [illegible] very delicate flavour; and I am further opin[illegible]n they are especially adapted for chil[illegible]n a[illegible] others requiring the demulcent and [illegible]ollie[illegible] principles of the liquorice plant in a [illegible]atab[illegible] and convenient form."

"Liquorice Pellets having the following percentage composition:

Extractive 87, Water 13 = 100,

and containing no foreign colouring matter of any kind; and I am further of opinion the extractive is that obtained from the plant Glycyrrhiza glabra, and that the "Pellets" are exceptionally rich in the active principle glycyrrhizin, which by its demulcent and soothing properties to the vocal organs should prove of especial value to public orators and members of the dramatic profession; being of small size, they may be easily carried in the pocket."

"Liquorice and Malt Lozenges which upon chemical examination prove to consist of the finest extract of liquorice combined with malt extract, the latter exceptionally rich in diastase, rendering these lozenges of great value both as a nutritive and demulcent agent; and I am also of opinion a better preparation of Liquorice and Malt cannot be obtained, it being a palatable, nutritious, and compact sweetmeat. These lozenges should be of especial value to public speakers singers Members of Parliament, and others requiring a sustaining and demulcent combination during lengthy speeches or dramatic recitals."

WRITE FOR SAMPLES AND PRICES TO

[illegible]OHN HILLABY, LION WORKS, PONTEFRACT.

GUEST & CO.

[illegible]TY WORKS, CARRUTHERS STREET, MANCHESTER.

MAKERS OF MEDICATED LOZENGES AND JUJUBES.

[illegible]P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—[illegible]ycerine and Black Currant, &c. Granular and all other Effervescing Preparations. Boiled Sugars, Floral Tablets.

SEND FOR LIST, SAMPLES, AND COMPARE.

TELEPHONE 235. TELEGRAMS "GUESTO."

"[illegible]OLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

THE TESTIMONY OF "THE LANCET."

The following is from "THE LANCET" of March 30, 1895.

"[illegible]e above brand has long been known to be of standard purity. We found the specimen to be completely soluble in [illegible]ter [illegible]nd entirely free from impurities of any kind. It is, therefore, well adapted for the pharmaceutical purpose for which [illegible] [illegible]useful, while as a popular demulcent it is both safe and reliable."

Recommended also by "*The British Medical Journal*," "*Health*," "*The Chemist and Druggist*," "*Food and Sanitation*"

ASK FOR SHOWCARDS AND HANDBILLS.

GORDON & DILWORTH'
TOMATO CATSUP.

REDUCTION IN PRICE
1st APRIL.

		Per d
Small Size, Cases of 4 dozen		4/
Large „ „ 2 „		9/

Special Quotations for Quantity.

A STRICTLY FIRST-CLASS TABLE SAUC

Made entirely of Fresh Tomatoes once a year in Tomato Season.

And has a particular piquancy, attained on by our New Process.

PLEASES THE TASTE.
STIMULATES THE APPETITE
PROMOTES DIGESTION.

WHOLESALE OF

CROSSE & BLACKWELL, LTD.,
E. LAZENBY & SON, LTD
JOHN MOIR & SON, LTD.,
J. TRAVERS & SONS, LTD
OF LONDON.
JOHN BURY, MANCHESTER.

If any difficulty in obtaining in any part of the Worl write

SOLE LONDON CONSIGNEES—

W. B. FORDHAM & SONS, LD., 36 TO 40 YORK ROAD, KING'S CROSS, **LONDON, N**

Telephone 7514. Telegrams—"FORDHAMS LONDON." Established 1825.

"EDME"

PURE MALT EXTRACT

RICHEST IN DIASTASE.

Purity and keeping qualities guaranteed.

THE LANCET says:—"This preparation proved to be a highly concentrated nd active malt essence. It possesses a rich malty flavour, and acts POWERFULLY pon starch, CONVERTING IT RAPIDLY INTO MALTOSE. It is, therefore, well dapted for use as an aid to the digestion of starchy foods, whilst furnishing also nportant food constituents."

THE BRITISH MEDICAL JOURNAL says:—"It is of pale amber colour and ood consistency. When tested with gelatinised starch it converted FIVE IMES ITS OWN WEIGHT IN FIVE MINUTES at a temperature 100° F. This result shows that the Extract has a VERY HIGH DIASTASIC OWER, and it therefore would be extremely efficacious as a medicinal agent here the use of an aid to the digestion of amylaceous food is indicated."

THE PHARMACEUTICAL JOURNAL says:—"This preparation is one which is t as well known to the retail chemist as some that could be mentioned, but xamination of it shows that it POSSESSES CLAIMS WHICH ENTITLE IT TO EXTENDED ATRONAGE. The result of the test proves the Extract to be of UNUSUALLY IGH DIASTASIC VALUE, and it is equally satisfactory in other spects."

SAMPLES ON APPLICATION TO THE

ENGLISH DIASTASIC MALT EXTRACT CO., LTD.

MISTLEY, ESSEX.

BAILEY'S

TRUSSES

ARE THE BEST FOR SHAPE AND QUALITY. FIRST PRIZE, 1879.

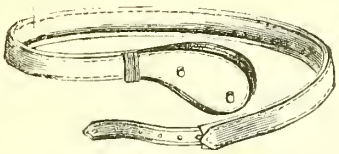


Fig. 1.

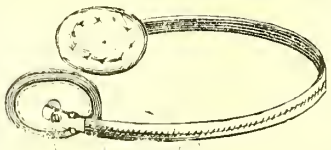


Fig. 10.

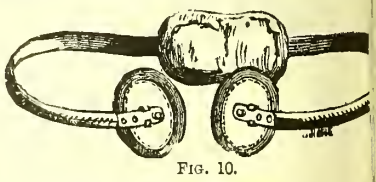


Fig. 10.

MANUFACTURED THROUGHOUT UPON THE PREMISES.

GREAT FACILITIES FOR MANUFACTURE AND QUICK DESPATCH OF SPECIAL TRUSS

TRUSSES MADE TO ORDER, AND CUSTOMERS' NAMES STAMPED UPON THEM.

Send for Sample of BAILEY'S "MARONE" Circular Truss, the Cheapest and Best Truss at the price in the Mar

SAMPLES POST FREE 24/- DOZ. USUAL TRADE AND EXPORT DISCOUNT.

SCROTAL AND IMPROVED SCROTAL TRUSSES

Fig. 1.	Single Circular Trusses, per doz.	...	16/-	21/-	Fig. 7.	Circular, narrow, Single, per doz.	...		4
„ 1.	Double „ „ „ „	...	30/-	34/-	„ 7.	„ „ Double „ „	...		6
„ 1.	Bailey's "Export" Trusses, Single, per doz.	...		13/6	„ 18.	Scrotal, Single „ „	...	40/-	4
„ 1.	„ „ „ Double „	...		24/-	„ 18.	„ Double „ „	...	68/-	8
„ 10.	S. & O. Principle, Single „ „		27/-	30/- 36/	„ 19	Improved Scrotal, Single, each	...		
„ 10.	„ „ Double		54/-	60/- 72/-	„ 19.	„ „ Double ..	..		1

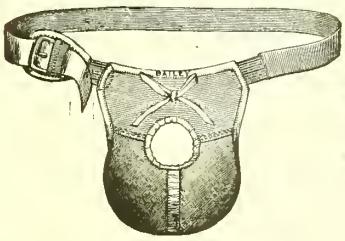


Fig. 2.

BAILEY'S

SUSPENSORY BANDAGES

A. B. C SYSTEM.

The large and increasing number of orders from abroad proves the truth of

What "THE CHEMIST AND DRUGGIST" says:—

Every retailer knows what a worry it is to get a customer suited with a bandage when it has to be picked out of a drawerful of all sizes. Messrs. Bailey's system is to mark every bandage with a number and letter—4B, for instance. By referring to the list, one finds that No. 4 is so-and-so, and the letter B indicates the size. If B is too large, A can be supplied; if too small, then size C. In the case of hydrocele, where a continually increasing size is necessary, it will be seen how very convenient this system is for ordering. Apart from that, there is the convenience in stocking the bandages. Each one is put up in a neat slide-box, labelled at one end with the size and style, thus :—

To repeat quote No., **4B SILK.**

So that they are easy to pack away, easy to fit, and easy to sell, while the quality is excellent.

Cabinet of 2 dozen assorted, 30/- USUAL DISCOUNT. Containing—

TRY THESE, AND YOU WILL KEEP NO OTHERS.

6 No. 1,	Cotton, with tape understraps,	...	... per doz.	8/-
6 No. 2,	„ „ drawing strings,	as Fig. 2 ...	„	10/-
6 No. 4,	Silk „ „	„ Fig. 2 ...	„	18/-
3 No. 6,	„ Super with „	„ Fig. 2 ...	„	24/-
3 No. 8,	„ „ button-bags	... ...	„	24/-

W. H. BAILEY & SON, 38 OXFORD STREET, LONDON, W.

TELEGRAPHIC ADDRESS—"BAYLEAF LONDON."

PHARMACY of TO-DAY.

A PARALLEL.

The Coated Pill

is a concrete mass becoming hard and insoluble through age ; it is often coated with an insoluble film of French chalk.

Compressed Tablets.

Dr. W. L. Baum, in a report to the American Medical Association (The Druggists' Circular, Feb., 1897), says: "Unfortunately, however, there are but one or two out of the large number of tablet manufacturers who prepare this line of products skilfully, and as a consequence most insoluble salts when compressed are made so hard as to be absolutely valueless therapeutically. On the other hand, who would be so foolhardy as to contend that a fluid extract containing sensitive alkaloids or glucosid s, having been made by cold percolation and having had the most extreme care bestowed upon every detail of its manufacture, could be reduced to a perfectly dry powder almost black in appearance without affecting its medicinal activity?"

Palatinoids

"are tiny cachets of soluble glycerine jujube, containing drugs in their normal and most soluble conditions; powders, non-aqueous liquids, and oils may be taken tastelessly in Palatinoids. Many persons unable to take pills can swallow Palatinoids with avidity."

—British Medical Journal.

"Drugs and animal active substances, being hermetically closed in the jujube Palatinoids, are preserved from decomposition through atmospheric influences; the soluble jujube completely excludes the air."

—The Lancet.

We supply with an order for £5 worth of Palatinoids a Handsome Counter Show Case.

QUICK-SELLING FORMULÆ.

AMYL NITRITE, 3 minims, for inhalation
CASCARA SAGRADA EXT., 2 grs.
CHLORODYNE, 5 minims
CREOSOTE, 1, 2, and 3 minims
PARRISH'S FOOD, 1 drachm
PEPTONIC
PHENACETINE
QUININE BISULPH., 1, 2, and 3 grs.
SODA MINT
SANTAL OIL COMP.
SULPHONAL, 5 grs.
THYROID GLAND, 5 grs.
BIPALATINOIDS OF BLAUD'S PILL, 4 grs.
BIPALATINOIDS OF COMPOUND HYPOPHOSPHITES = 1 drachm of Syrup

WRITE FOR TERMS OF SYSTEM OF CO-OPERATION.

OPENHEIMER, SON & CO., LTD., Manufacturing Chemists, WORSHIP STREET, LONDON.

Wholesale Agents for Serums from Pasteur Institute, Paris.

SYR. HYPOPHOS. CO., FELLOWS

CONTAINS THE ESSENTIAL ELEMENTS of the Animal Organisation—Potash and Lime;

THE OXIDISING AGENTS—Iron and Manganese;

THE TONICS—Quinine and Strychnine;

AND THE VITALISING CONSTITUENT—Phosphorus: the whole combined in the form of a Syr with a **SLIGHTLY ALKALINE REACTION**.

IT DIFFERS IN ITS EFFECTS FROM ALL ANALOGOUS PREPARATIONS, and it possesses t important properties of being pleasant to the taste, easily borne by the stomach, and harmless und prolonged use.

IT HAS GAINED A WIDE REPUTATION, particularly in the treatment of Pulmonary Tuberculosi Chronic Bronchitis, and other affections of the respiratory organs. It has also been employed with muc success in various nervous and debilitating diseases.

ITS CURATIVE POWER is largely attributable to its stimulant, tonic, and nutritive properties, by mea of which the energy of the system is recruited.

ITS ACTION IS PROMPT; it stimulates the appetite and the digestion, it promotes assimilation, and enters directly into the circulation with the food products.

The prescribed dose produces a feeling of buoyancy, and removes depression and melancholy; *hence th preparation is of great value in the treatment of mental and nervous affections.* From the fact also tha it exerts a double tonic influence, and induces a healthy flow of the secretions, its use is indicated in wide range of diseases.

NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain person to offer imitations of it for sale. Mr. Fellows, who has examined samples o several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed t light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

As these cheap and inefficient substitutes are frequently dispensed instead o the genuine preparation, physicians are earnestly requested, when prescribing the Syrup, to write "Syr. Hypophos. FELLOWS."

As a further precaution, it is advisable that the Syrup should be ordered in the original bottles (4/- or 7/-); the distinguishing marks which the bottles (and the wrappers surrounding them) bear can then be examined, and the genuineness—or otherwise—of the contents thereby proved.

Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.

Australian Address :—456, Collins Street West, MELBOURNE. *Cable and Telegraphic Address :—"BURCOME, LONDON."*

The 'Tabloid' and Photography

THE 'TABLOID' provides the amateur and the tourist with photographic chemicals in the most compact, portable, convenient, permanent and reliable form.

Pharmacists

can best supply the needs of these classes and add a profitable extra to their own everyday business by means of the

Photographic 'Tabloid.'

A complete stock of photographic chemicals in 'tabloid' form occupies the minimum of space, so that the necessity of a separate photographic department is avoided.

During the holiday and tourist seasons a Photographic 'Tabloid' Counter Tablet prominently displayed will undoubtedly prove profitable.

Photographic 'Tabloid' List.

DEVELOPING 'Tabloids'—
- Eikonogen, in bottles of 15 and 40.
- Eikonogen with Quinol, in bottles of 15 and 40.
- Paramidophenol, in bottles of 12 and 25.
- Pyro-Developer, in bottles of 20 and 55.
- Pure Pyrogallic Acid, 1 gr., in bottles of 42 and 100.
- Pure Pyrogallic Acid, 2 gr., in bottles of 24 and 55.
- Pure Pyrogallic Acid, 4 gr., in bottles of 15 and 36.
- Pyrogallic Acid with Eikonogen, in bottles of 15 and 40.
- Quinol (Hydroquinone), in bottles of 20 and 55.
- Quinol with Pyro, in bottles of 18 and 45.

ACCELERATOR 'Tabloids,' in bottles of 30 and 100.

RESTRAINER 'Tabloids'—
- Potassium Bromide, 1 gr., in bottles of 30 and 100.
- Ammonium Bromide, 1 gr., in bottles of 30 and 100.

Price 4s. 6d. & 9s. per doz. bottles.

TONING 'Tabloids'—
- Gold Compound, bottles of 3.

Price 8s. per doz. bottles.

Literature and Show Tablet forwarded free on application.

Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.

Australasian Address :—108, Pitt Street, SYDNEY, N.S.W. *Cable and Telegraphic Address :—"BURCOME, LONDON."*

'Lanoline' Preparations.

Toilet 'Lanoline'

Is prepared from the purified fat of lamb's wool, which is similar to the natural fat of the human skin and therefore forms an effective, soothing and protective application for roughness, sunburn, chaps, cuts, burns, eruptions, and all forms of sensitive skin. Toilet 'Lanoline' is supplied in large and small collapsible tubes at 4s. 6d. and 9s. per dozen.

'Lanoline' Toilet Soap

Is a perfectly neutral soap superfatted with 'Lanoline.' It is admirably suited for ladies' and children's use. 'Lanoline' Toilet Soap is now issued in one size only, to retail at 6d., put up in boxes containing three tablets. The tablets are more elegant in appearance and larger than hitherto. 'Lanoline' Toilet Soap is supplied at 4s 6d. per doz. tablets.

Burroughs Wellcome & Co., Snow Hill Buildings, LONDON.

Australasian Address :—108. Pitt Street, SYDNEY, N.S.W. *Cable and Telegraphic Address :—"BURCOME, LONDON."*

TABLOID MEDICINE CASES AND CHESTS

B. W. & Co.

B. W. & Co. Cyclist's 'Tabloid' Medicine Case.

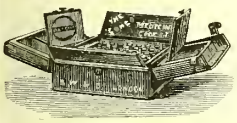
Fitted complete, 3s. 6d.

THE PHARMACIST has many opportunities for profitable business in supplying 'Tabloid' Medicine Cases to tourists, travellers and explorers who are obtaining drug outfits under the direction of their medical advisers. These equipments vary in size from small pocket wallets to large caravan chests. The contents in 'tabloid' form may be specially adapted to every conceivable requirement.

The B. W. & Co. Cyclist's 'Tabloid' Medicine Case contains in compact form all medicines necessary for the pressing needs of an extended tour. The B. W. & Co. Alpine 'Tabloid' Medicine Case is fitted, as recommended by the Alpine Club, with everything necessary for a small mountaineering party. The B. W. & Co. Lifebuoy 'Tabloid' Medicine Case is adapted for fixing on the side of the yacht's cabin, and provides sufficient medicines for a long voyage.

The "Chemist and Druggist" reports that chemists are deriving considerable profit by supplying the B. W. & Co. 'Congo,' or similar 'Tabloid' Medicine Chests, to the ambulance corps of volunteers for camp use.

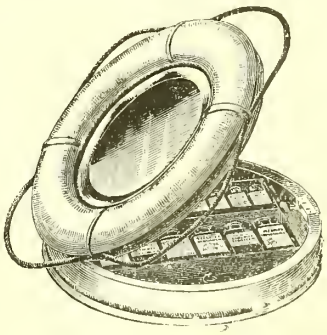
B. W. & Co. 'Congo' 'Tabloid' Medicine Case.



Fitted complete from £10.

Full particulars will be sent on application.

Burroughs, Wellcome & Co.,
Snow Hill Buildings, LONDON,
and 10s, Pitt Street, Sydney, N.S.W.



B. W. & Co. Lifebuoy 'Tabloid' Medicine Case. Fitted complete, 84s.

Cable and Telegraphic Address:—
"BURCOME, LONDON."

B 51

Vinolia

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Central Pharmaceutical Association of N.Z.
Otago Pharmaceutical Association.
Pharmaceutical Society of Queensland.
Pharmaceutical Society of South Australia.
Pharmaceutical Society of Tasmania.
Pharmaceutical Society of Western Australia.
Pharmaceutical Chemists' and Apothecaries' Assistants' Association of Ireland.

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POSTCARD COMPETITION.

One Guinea is offered for the most accurate forecast of the order in which the candidates for the Council of the Pharmaceutical Society will pass the poll. Names only (not numbers) are to be given on postcards, and the latest date for receiving these is May 10. Subscribers, their families, and staffs are eligible to compete. The candidates are Allen, Atkins, Bottle, Campkin, Carteighe, Corder, Grose, Hampson, Harrison, Hyslop, Martindale, Park, Savory, Southall, Warren, and Young.

SUMMARY

The latest store-prices are quoted on p. 602.

A number of useful formulæ are printed on p. 620.

Some funny things are happening "At the counter" this week (p. 621).

Some useful pieces of laboratory and shop apparatus are described on pp. 614–15.

Scotch chemists who sell medicated wines must now take out grocers' licences (p. 637).

The business of Mr. J. C. Eno in fruit-salt, &c., is converted into a limited company (p. 640).

We commence a report of the Dispensing Difficulties Competition on page 611. There are some good things in it.

A contributor gives further particulars regarding the irregularities in the Irish poor-law drug-contract system (p. 609).

The extremely complicated chemico-legal case regarding the rhodamine dyes has been decided in favour of the defendants (p. 638).

Mr. Hyslop and Mr. Warren, two of the candidates for the Council of the Pharmaceutical Society, favour us with their views (p. 627).

Dr. W. H. Ince communicates an amusing article on a curious native Pharmacopœia which he has discovered in the West Indies (p. 614).

A Subscriber in Japan sends us some amusing and pertinent reflections on the value of the Minor certificate at home and abroad (p. 616).

"We Two" is not contributed by Edna Lyell, but by a pharmaceutical poet, who moralises on the master's feelings and the apprentice's (p. 620).

A man in Bedford has got five years' penal servitude for obtaining goods from Messrs. Butler & Crispe, and other firms, by false pretences (p. 603).

The Privy Council have completed the examining-board of the Apothecaries Hall of Ireland, thus defeating the General Medical Council (p. 604).

A summary is given of the new Pharmacy Act in Natal, with an outline of the examinations recently organised by the Natal Pharmacy Board (p. 624).

Parke's Drug-stores have succeeded in proving that an off wine-licence must be granted by magistrates (p. 637). The law of the matter is referred to on p. 637.

Our representative in France has interviewed the director of the Chemical Control Bureau regarding the system by which the quality of pharmaceutical products is controlled there (p. 617).

Dr. Koch's work in combating the rinderpest epidemic in South Africa is the subject of an article on p. 612, which is illustrated with pictures of Dr. Koch at work, and of some leading colonists.

Mr. B. S. Proctor has made a thorough investigation of the hypophosphorous method for the estimation of bismuth, and does not find it so valuable as has been suggested. He enters fully into the matter in an article beginning p. 631.

Coca-wine of commerce is somewhat variable, according to Mr John Barclay, who submits results and describes an easy method of assay. His paper includes a note from the Board of Inland Revenue regarding the conditions upon which coca-wine may be sold without a licence (p. 618)

The Irish Pharmaceutical Council last week resolved to present a loyal address to the Queen on the occasion of her Diamond Jubilee. They also arranged to hold a series of educational meetings, and to make elementary chemistry a compulsory subject in the Preliminary examination (p. 608).

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Chemists and Wax.

Dr. Wynter Blyth, F.I.C., in his annual report as the Marylebone Public Analyst, states that drugs are often somewhat below standard, but adulteration is rare. Fourteen samples of white wax were "purchased from pharmaceutical chemists," and one was found mixed with a large proportion of paraffin wax, and the vendor was prosecuted and fined. The defence raised was that beeswax was not a drug, but the Magistrate overruled the objection. Subsequently, in the appeal case of Fowle *v.* Fox (75 L.T.R., 514), Justices Grantham and Wright decided that beeswax, when sold by a grocer in the ordinary way of business, was not a drug. From a careful perusal of that judgment Dr. Blyth comes to the conclusion that the Magistrate's decision in the Marylebone case would have been upheld. In other words, it still continues an offence for a chemist to sell white wax, with paraffin, without declaring the mixture, though if bought at a grocer's, or an oilshop, the presumption is that the wax is not required for medicinal-purposes, and, if mixed with other waxes, there may be no offence under the Sale of Food and Drugs Act.

Sub-postmasters' Grievances.

Mr. John W. Cussons, of Orsett, Yorkshire, chemist and sub-postmaster, who gave evidence last year before the Inter-departmental Committee of the Post Office in regard to the grievances of sub-postmasters, asks us to inform other chemists who are sub-postmasters that a meeting of sub-postmasters and sub-postmistresses will be held at the Music Saloon, Wood Street, Wakefield, on Easter Monday, at 2.30 P.M., to form a national Sub-postmasters' Association and to discuss their grievances.

Mr. A. H. Allen's Work as Public Analyst.

At the usual meeting of the Sheffield City Council on Wednesday Mr. A. H. Allen was reappointed City Analyst for the ensuing year at a salary of 100*l.*, he to receive 10*s.* 6*d.* for each sample submitted above 150. Last year he reported on 226 samples—viz., 151 milks, 24 butters, 10 peppers, 10 mustards, and 11 waters. Last quarter he dealt with 30 samples—28 of milk, and 2 of butter. Only one sample of milk was seriously adulterated. In his report to the West Riding County Council Mr. Allen states that last year he analysed and reported on 678 samples, of which 598 were received from inspectors and 80 from local authorities within the Riding. A sample of magnesia was found to consist of carbonate of magnesia. Seven samples of sweet spirit of nitre were of inferior quality, and one had fully 2 per cent. of excess water, and was almost destitute of nitrous ether. In a sample of tincture of iodine the proportion of spirit was below, and iodine and iodide of potassium in excess of, B.P. preparation. Of 18 samples of tincture of rhubarb, 13 were genuine, one contained twice the proper proportion of extractive matter, was deficient in alcohol, and destitute of saffron; and 3 were deficient in alcohol, and destitute of saffron. The vendors of tincture of iodine and rhubarb had been summoned and fined. Mr. Allen also submitted a report of the work done by him through the whole year. The figures, he says, show a percentage of 6·4 adulterated samples in addition to 6·2 per cent. which were doubtful, inferior, or adulterated to an insignificant extent. Of 24 samples of quinine, 23 were genuine and 1 adulterated; of 28 tinctures, 21 were genuine, 1 doubtful, 6 adulterated. All the samples of paregoric-lozenges and glycerine were genuine. Of 120 samples of miscellaneous drugs, 93 were genuine, 14 doubtful, and 13 adulterated. All the castor and other oils sent to him were genuine. The practice, not infrequent a few years since, of adding a coal-tar colour to beetroot-sugar, with a view of causing it to simulate Demerara sugar, appears to have died out so far as the West Riding is concerned. Several samples of honey have been examined which were of a suspicious character, but the adulteration, if any, was so scientifically practised that Mr. Allen did not feel in a position to certify positively on the point. Regarding spices, Mr. Allen says the practice of adding to ground ginger a certain proportion of ginger from which the active principle has been extracted is now much less common than was the case a few years since, but one sample examined was found to contain not less than 20 per cent. of exhausted ginger. Regarding crude drugs, Mr. Allen remarks that a number "had been examined, and in some cases grave adulteration had been detected, but the subject bristles with difficulties, and the more so from the absence of any authoritative definition or description of articles examined. This is true even of many of the articles recognised in the Pharmacopœia, and it is additionally unfortunate that the law does not in so many words constitute the British Pharmacopœia the official standard for the drugs therein described. It is eminently desirable that this should be done, but in such case it would be well to make an exception of certain articles, such as soda-water, vinegar, and beeswax, which are employed for various purposes other than medicinal. In the case of tinctures it is easy for the analyst to ascertain the alcoholic strength, but the equally, if not more, important question of the quality of the drug employed in preparing the tincture can only in rare cases be ascertained. Only in very exceptional instances, as in that of tincture of opium, does the British Pharmacopœia specify the quality of the drug to be used in the preparation of the article, and no information commonly exists as to the strength and range of variation in composition of many other of the articles used." Mr. Allen, in conclusion, expresses regret that there is no probability of a Bill dealing with the Adulteration Acts being passed through Parliament this Session.

Mr. Braxton Hicks Makes a Mistake.

Last week Mr. Braxton Hicks, the South London Coroner, held an inquest at Kingston regarding the death of William Moyle (43), a groom to Mr. J. W. Edwards, veterinary surgeon to the Surrey County Council. It appeared from the evidence that one of deceased's duties was to poison stray dogs with prussic acid, and he seemed to have taken about 1 oz. of it himself. The doctor who gave evidence could not swear that death was due to prussic-acid poisoning, because he had not made a *post-mortem* examination, as the Coroner had not instructed him to do so. Therefore the inquest was adjourned for an hour and a half, and, on resuming, the Coroner apologised to the jury, saying that he had made a mistake by not ordering a *post-mortem* examination to be made in the first instance. The doctor's evidence was clear to the effect that death was due to hydrocyanic-acid poisoning, and a verdict was returned accordingly.

Store Prices.

The Army and Navy Co-operative Society (Limited) intimate the following reductions in prices for April:—Blondeau's lettuce, &c., soaps, reduce from 1*s.* 3*d.* to 1*s.* 2*d.*; glycerine and cucumber, cold-cream, and baby soap, from 1*s.* 1½*d.* to 1*s.* 1*d.* Camphor, to 1*s.* 1*d.* per lb.; and 1-oz. blocks to 1½*d.* per oz. Cod-liver oil, to 10*s.* 6*d.* per gallon jar, and other prices proportionately; refined Norwegian, for veterinary use, is quoted at 5*s.* 6*d.* per gallon. Ingram's enemas are reduced to 4*s.* 6*d.*; and hot-water bottles, 12 × 7, to 4*s.*; 14 × 7, to 4*s.* 6*d.*; 14 × 8, to 4*s.* 10*d.* Clinical thermometers are also reduced—*e.g.*, magnifying, to 4*s.* each. Poudre violet dentifrice has been discontinued. Various items have been added, including gluten preparations made at the Society's own bakery, and paraffin hair-stimulant, 2*s.* 6*d.*, as well as several other new specialities made in the department to compete with popular proprietary articles.

Activity in the Chemical-trade.

We hear that the chemical-factories all round the St. Helens district are so busy just now that there will be no Easter holidays this year.

Fall into a Vitriol-tank.

William Evans, a labourer, employed by the Alizarine Company, North Woolwich, fell into a tank of vitriol last week, and died in the Seamen's Hospital on Thursday. The house-surgeon stated at the inquest that deceased's arms, hands, legs, thighs, chest, and abdomen were frightfully burned, and death was due to shock. A remarkable point about the matter is that Evans managed to struggle out of the tank without assistance.

He Lived in a Cottage.

At Bedford Quarter Sessions Thomas Frederick Lionel Palmer was indicted for numerous cases of obtaining goods by false pretences, one of the prosecuting firms being Messrs. Butler & Crispe, of 32 Clerkenwell Road, London. The prisoner wrote to firms all over the country for samples, and would make up an order on an elaborately-printed form, the wholesale firms being led to believe that he was a tradesman in a large way of business at Bedford, whereas he only occupied a small cottage, the rent of which was 3*s.* 6*d.* a week. He pleaded guilty, and was sentenced to five years' penal servitude.

Exceptional and Prosaic Poisonings.

At St. Helens, last week John Hasleton (45), a chemical labourer, committed suicide by drinking an acid solution of chloride of copper.

George Curtis, a Croydon bailiff, last Saturday intentionally drank a quantity of bichromate of potash and died the same evening. His reason for it was that "life was a misery, being full of ups and downs."

"Everyone crushes me down, and I shall do away with myself," said Edith Alice Rose (16), an Islington girl, and a week later she did so by taking carbolic acid. A broken engagement with a boy of her own age was the immediate cause of the trouble. Her mother committed suicide eight years ago.

The Jersey Pharmacy Bill.

The 1897 session of the Legislative Assembly closed on April 8 without Deputy Dr. Duret Aubin's proposed Bill on pharmacy (introduced last year) having come on for discussion.

The Sale of Nitric Acid.

A young girl of 25, daughter of a Jersey butcher, seems to have become imbued with the notion that she was responsible for an accident to one of her little nieces, who had fallen from a stool, and that the child would be a cripple for life. She went to The Drug-stores, and asked Mr. Fred. Renouf (son of the proprietor) for some acetic acid. She re-entered, however, and said that was not what she wanted, and, in reply to his query, said she needed the acid for test-gold and jewellery (one of her brothers being a watchmaker). Mr. Renouf gave her a 2-oz. bottle of nitric acid accordingly, which she afterwards killed herself with. Questioned by the Solicitor-General at the inquest, Mr. Renouf said there was no restriction on the sale of nitric acid there, or in England. They never asked questions, as it was sold daily, being merely a corrosive. It was not more deadly than carbolic acid, which was also not in the list. He labelled the nitric acid "Poison."

A New Opening for Feeding-bottles.

A menagerie was visiting Leighton Buzzard last week, and a local paper tells the story that a well-known chemist of the town received a call on Sunday evening. Chemists are used to extraordinary requests, but this gentleman was not quite prepared for the demand of his customer: "I want a feeding-bottle for a wolf." The gentleman, it is said, reached the other side of his shop at a bound. "Is it here?" On being assured that the wolf had not come to have its feeding-bottle tried on, Mr. Mallett (for that was his name) renewed his composure. Further inquiry elicited the fact that three baby-wolves had just been born in the menagerie; the mother had destroyed one of them, and it was necessary to bring the others up by hand—hence the feeding-bottle.

Rifling Students' Pockets.

Petty pilfering from the pockets of students at the Royal College of Science, South Kensington, has been going on at such a rate that Detective-sergeant Tallin was sent there to catch the thief. He hid himself in a box, and from his hiding-place saw a young man empty the overcoat pockets of Mr. A. J. Brett, a student. Tallin jumped out and seized the culprit, who proved to be George Garrad (19), an attendant at the school. He is now under remand at the Westminster Police Court.

L.C.C. Lime-contracts.

It was agreed at the weekly meeting of the London County Council on Tuesday that the sum of 1,000*l.* deposited by Mr. Sommerfield as security for the due performance of his contract for the supply of lime to the Barking and Crossness outfall works be returned, having regard to the fact that about half the quantity contracted for had already been supplied.

Chemical Buildings and the L.C.C.

At the weekly meeting of the L.C.C. on Tuesday it was agreed, on the recommendation of the Building Act Committee, that the consent of the Council be given to the erection of a factory on the east side of Bow Common Lane, in accordance with the plans submitted on behalf of Messrs. W. Pearce & Co., providing that no objection be raised by the district board, and subject to the ordinary conditions of the Council.

A Charge of Embezzlement.

The case of Arthur J. Conroy, chemist, charged with embezzling 49*l.* 6*s.* 1*d.*, the moneys of his employers, Boots (Limited), on March 22, 1897, and on other divers dates, came before the Bedford Magistrates on Monday. The accused was until lately manager of one of the prosecutors' shops in Bedford. Mr. Clare, who appeared for the defendant, stated that the prisoner was seriously ill with peritonitis. On Saturday the police did not think he would live. It was urgent that he should be handed over to his wife, who was in Bedford, and he asked the Magistrates to make arrangements to bail him at once. Mr. Stimson did not oppose the application. Dr. Edwards, who had attended the defendant, gave evidence, and the Magistrates made the order asked for; but Conroy was too ill to be moved then.

An *x*-Ray Society.

Medical men have formed an *x*-Ray Society. Membership is not restricted to medical men, but includes all who are interested in the scientific study of the Röntgen rays. The honorary secretary is Dr. Walsh, 5 Pump Court, Temple, E.C.

P.A.T.A.

We are informed that Sir Edward Clarke's opinion as to the legality of the scheme of the Proprietary Articles Trade Association has been received, and that it entirely confirms the opinion previously obtained that the methods adopted are quite justifiable in law.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Under the Hammer.

Last week at Dublin a public auction took place of the drug and chemical stock-in-trade of Messrs. Gavel, Rockstro. The sale included several hundred stock bottles, filled with all sorts and conditions of drugs, which sold for 8*l.* Some amusement was caused by the auctioneer's descriptions and "shots" at pharmaceutical nomenclature. Test-tubes he described as "little bottles for holding air," and a set of clinical thermometers went down as "cynical barometers" for a few pence.

Company-pharmacy.

The Pharmaceutical Assistants' Association is to hold a special meeting to consider a resolution proposed by Mr. G. T. Nagle to the effect that company-pharmacy is inimical to the best interests of assistants, and that the Secretary be requested to ascertain the opinion of electors of the Pharmaceutical Society on the point.

Pharmaceutical Society of Ireland—Preliminary Examination.

The following have passed:—Messrs. A. N. Yoxall, M. F. Brennan, J. B. Doran, G. E. Robinson, C. G. Keers, T. G. Rutherford, J. Hunter, J. Walsh, H. J. Owgan, J. A. Walsh, F. J. B. Mason, T. McKay, R. R. Lowe. Nine candidates were rejected.

April Examinations.—Mr. E. B. Aplin has passed the Registered Druggist examination. Mr. H. Harris has passed the Pharmaceutical Assistant's examination.

Pharmaceutical Chemists' and Apothecaries' Assistants' Association of Ireland.

Mr. P. Kelly delivered his lecture on "Chemistry, Ancient and Modern" on Thursday of last week at the Pharmaceutical Society's house in Dublin. Professor Tichborne presided. The lecture was of a popular nature, because the audience was largely composed of friends of the members, but it was interesting nevertheless, and those who had the pleasure of listening to it were told many curious things. Lantern-portraits of famous chemists were used to illustrate the lecture. At the conclusion Mr. Kelly was warmly thanked, and so was Professor Tichborne.

The Apothecaries' Hall of Ireland.

The Privy Council have responded to the appeal of the "Hall," and granted to it the additional examiners in surgery asked for to enable the "Hall" to carry on its examinations as an independent medico-chirurgical licensing corporation. This is a serious snub for the General Medical Council, which other Councils may note. The *Medical Press*, in a jubilant article, observes:—"That the General Medical Council should have been stripped of its armour, and by so friendless a body as the Apothecaries' Hall of Ireland, is certainly a new and surprising experience. We glory in the proof that autocracy and, we will add, personal cliqueism, in the General Medical Council have got a heavy fall. A judicial body which makes itself the tool of an interested party deserves no better fate, and, in the interests of the profession and the medical corporations, we hail the decision of the Privy Council as occasion for an appropriate Jubilee celebration."

Drug-contracts.

The following tenders have been accepted:

The Cork Chemical and Drug Company (Limited) for medicines and surgical instruments to the Cork Union.

Messrs. Smith & Shepperd, Dublin, for medical and surgical appliances to the Mullingar and Mountmellick Unions.

Dissatisfied with the way of tendering, Mr. Meehan said, at the meeting at which the Mountmellick contract for drugs was settled, that totting up prices was not a true test of the cheapest tender. He maintained that quality was the test of cheapness. He thought that the medical officer of the Union should prepare a list of the drugs most in use, and that the supplies be considered on the basis of that list. He had found extraordinary differences in the tenders. Medicines which could not possibly be received from the manufacturers at less than 15*s.* per lb. were listed at 5*s.* and 2*s.* 6*d.* He proposed that a list such as he suggested be compiled, and that the medicines most in use be advertised for. The Chairman said that the medicines supplied were in accordance with the British Pharmacopœia. If they allowed the doctors to select the medicines mostly required they would require different contracts for each district. Totting up the columns and taking the lowest tender was a system that had worked well for the last forty-five years, and why should they seek to change it? If the medicines were inferior it was the doctor's duty to have them analysed, and the contractor would be bound to supply the genuine article if the sample proved inferior. Mr. Donaldson said that some four or five years ago he found the same class of medicine marked 15*s.*, 5*s.*, &c.; and it was found that the man who had the dear medicines was in the end the cheapest. During the discussion Mr. P. Cobbe wanted to know if the medicines, drugs, and medical appliances were to be of Irish manufacture. The Chairman said yes, as far as they could be obtained. Mr. Meehan persisted in pressing his proposition that the medicines most in use be advertised for separately from a list made out by the dispensary officer, but his motion was defeated. Messrs. Leslie & Co., Dublin, the old contractors, were reappointed. It transpired during the discussion that the tender of Messrs. Dimond & Co., Maryborough, was 100*l.* dearer than Messrs. Leslie's.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

The President Down.

Mr. Walter Hills, President of the Pharmaceutical Society, has been attending the meeting of the Board of Examiners in Edinburgh this week. The examinations are exceptionally heavy this month.

Dundee University College.

The dispute between this College and St. Andrews University, to which it is affiliated, is now drawing to a close. The idea is to devote the Dundee College solely to science and medicine, and it is now proposed to add a chair of forensic medicine to the others in the medical faculty.

The Pharmacy Act Prosecutions in Glasgow.

The *cacoëthes scribendi* is at present at fever heat in Glasgow. Letters are appearing daily in the newspapers regarding the recent prosecutions, and apparently most of them come from behind the drug-counter. Even a Cambridge man has joined in with the usual denunciation of the Pharmaceutical Society for doing its duty by prosecuting unqualified people, because, he adds, "subscriptions to the Society might be withdrawn were these prosecutions not continued."

The Sixpenny Doctor in Edinburgh.

The Dalry district of Edinburgh was startled last week by the opening of a doctor's shop and distribution of a cheap little handbill in regard to it, which read as follows:—

Dalry Road Surgery and Dispensary, 141 Dalry Road (opposite Caledonian Rubber-works).

Daily hours of consultation: Morning, 10 to 12; afternoon, 3 to 4; evening, 6 to 8; Sundays, 1 to 2.

Charges: Consultation and medicine, 6*d.*; visits, 1*s.*; vaccination (daily), 6*d.*; teeth-extractions, 6*d.*

This is something quite new for Edinburgh, and is considered to be playing it a little low for a city which prides itself in having one of the foremost medical schools in the universe.

Bang went Saxhorns.

Mr. Thomas Maben, pharmaceutical chemist, Hawick, has for several years acted as secretary of the local saxhorn band, and the members of the association have so highly appreciated his work in this matter that ten days ago they presented him with a handsome timepiece. A local paper makes the presentation the occasion for a portrait and half a column biographical sketch of Mr. Maben. From that we learn that Mr. Maben was for six years in the employment of Mr. Craig, chemist, Hawick, and then took the arts course at the Edinburgh University. Thereafter, for eighteen months he was with Messrs. Duncan, Flockhart & Co., and in 1880 began on his own account in Hawick, conducting his business with skill and success, and latterly adding to it the manufacture of aërated waters. A few years later Mr. Maben was appointed an examiner to the Pharmaceutical Society, a position which he still holds.

French News.

(*From our Paris Correspondent.*)

Hygienic Control of Alcohol.—The French Minister of Finances has recently issued a circular containing the text of a proposed law for organising a hygienic and fiscal control of alcohol. The proposal is to appoint a technical committee to fix the conditions of purity, and to prohibit the sale of alcohol in France for human consumption, unless it has been submitted to the hygienic control. This service, which will include entrepots and ten laboratories, is estimated to cost 350,000f. (say, 14,000*l.*) per annum, which will be partly covered by an analytical tax.

A Medical Drama.—M. Brieux's new play. "The Evasion," which is now being successfully performed at the Comédie Française, as well as at the Molière Theatre at Brussels, is a severe criticism of the medical profession. The great savant, Dr. Berthy, member of all the academies, is suffering from a fatal disease, which he is unable to cure. His pride forbids his consulting a colleague, or even owning to ill-health. This is the leading character-study of the piece. His secretary and *protégé*, De Belleuse, a young doctor, who makes the least moral use of his reputation as a skilful practitioner in female diseases, and his sarcastic and cynical friends, give a depressing idea of the moral standard of the modern French medical man, only relieved by the worthy Dr. Richon, a kindly old-fashioned country practitioner. Berthy's brother denounces science in general, and doctors in particular, in several eloquent tirades, making a saving clause in favour of Claude Bernard, Pasteur, and Roux, the latter being alluded to as a type of modest worth.

Advertising Patent-Medicines in France is rarely carried out on the scale that obtains in England—by means of a column or more in the newspapers. It generally takes the form of an announcement that reads like an item of news. The following is one of the most ingenious that has appeared recently :—

"Victory!—'In all crimes, look for the woman,' once said a celebrated detective. In all illnesses, find the anæmia, one might very justly add! That, in fact, is the root of all fatal diseases from morbid germs, and which prevents our feeble organism from opposing an efficacious resistance. To triumph over anæmia is a problem incessantly brought forward, though never solved. But suddenly, like a whirlwind, the news is spread abroad that this monster is definitely vanquished—and who would believe it?—by a special jam! The St. Vincent-de-Paul preserve, the secret of which was revealed to the Sisters of that Order a long time ago, has allowed them to exercise charity by giving life to those afflicted with anæmia, whom they nursed. Thanks to the entire unselfishness of these St. Vincent-de-Paul Sisters, this secret has been made known to pharmacy. Those hopeless ones tortured by anæmia have found life and health in those little pots of 'St. Vincent-de-Paul Jam,' which may be bought at the . . . . . Pharmacy, or from any other chemist. Take and eat, you will be cured in twenty days!"

White Wine *v.* Red.—In a paper by Dr. P. Carles, of the Bordeaux School of Pharmacy, read at a recent meeting of the Paris Therapeutic Society, the author showed that about twelve years ago one of his relations, a wine-grower, had great difficulty in selling his white wine at any price. In fact, he was told that "the discredit of white wines tends to become so great that you would do well to give up making them." But at the present the contrary is the case. As the result of what is said to be "leading medical opinion in Paris" white wines are all the rage, so much so that the anxiety formerly experienced by growers of white wine is now felt by those having red wines. Dr. Carles reports that the aid of chemists is consequently much in request in Bordeaux by unscrupulous merchants, and whereas they were formerly asked to devote their skill in making the commoner kind of white wines red, they are now asked to perform the opposite operation. There is little doubt that this change is the result of a fashion, and many scientists, amongst others Professor Bouchardot, are of opinion that the red wines are a "good liquid aliment, rich in tannin, phosphates, and iron." Dr. Carles asks if the change is really in conformity with scientific progress and the exigencies of modern hygiene. White wines were formerly boycotted because they had the reputation of being too exciting, and doctors forbade their patients to drink them. Red wines were reputed to be rich in tannin—one of the tonics of former days. Dr. Carles says he has, after considerable research, come to the conclusion that the fashion for white wine is not justified. He believes that the red wines are less tampered with by dishonest wine-merchants, and he quotes an old soldier's saying that "red wine is best for long marches, but white wine for an assault."

A Paris Chemist's Price List.—Our chemists are assimilating commercial ideas rapidly. The other day I saw an announcement of reduction of prices at a certain pharmacy in Paris with an offer of a new illustrated catalogue of 220 pages to be sent free on application. I sent for a copy and it reached me through the post. The list is well compiled, and is entitled "The Messenger of Pharmacy; a Quarterly Review of Pharmaceutical Tariffs." The cover is adorned with representations of the ten "gold, silver and bronze medals" which the proprietor possesses. "Delivery by carts all over Paris," "Provincial orders filled," "Steam works at St. Denis," and many similar announcements appear. The preface describes this pharmacy as the "most vast, the most important, and the most commercial in Paris." There is a night service, for which an additional charge of 1f. 50c. (1*s.* 3*d.*) on the catalogue prices is made. In addition to the exhaustive price list a chapter is devoted to "Practical Advice to Patients," giving the symptoms of most ailments and the remedies in the form of specialities, made by the pharmacy, for their cure. There are a couple of pages in English, and the proprietor trusts "that the moderate prices and a careful selection of the purest chemicals and choicest medicines will insure us the favour of the English and American families." Beecham's Pills are quoted at 2*s.* 10*d.* and 1*s.* 2*d.*, Benger's Liquor Pancreaticus 3*s.* 1½*d.*, Carter's Pills 1*s.* 3½*d.*, Dinneford's Magnesia 2*s.* 8*d.*, Elliman's Embrocation (men) 3*s.* 3*d.*, Eno's Fruit Salt 3*s.*, Lamplough's Saline 6*s.*, Powell's Balsam 2*s.* 5*d.*, Scott's Emulsion 3*s.* 7*d.*, &c.

Ancient Egyptian Pharmacy.—At the last meeting of the Paris Academy of Sciences a pharmacien member (M. Friedel) exhibited samples of various ointments, cosmetics, and eye-salves found by M. Amèlineau in some of the ancient tombs searched by him at Abydos, Egypt. These tombs are undoubtedly of great antiquity, and are considered as having existed prior to the first dynasty. Special attention was drawn by M. Friedel to substances in cake-form, which he had found to be fatty matters of various kinds, more or less altered by oxidation. He had traced some to be palmitic acid, and others stearic acid, mixed with a certain proportion of glycerine. In another sample the presence of grape-stones was noticeable. This was supposed to be some kind of pastry containing grapes. M. Friedel also showed a collection of small vases in marble, onyx, or other stone. In the bottom of these was found a small quantity of a pulverised fatty substance, mixed with a sort of flour. This was supposed to be a cosmetic used by the Egyptians, as sulphide of antimony or kohl is at present used by women in Oriental countries. This communication by M. Friedel appeared to excite considerable interest, and M. Berthelot mentioned that he had also at various times had occasion to determine substances contained in vases found in the Egyptian catacombs; in addition to the fatty bodies found by M. Friedel, he has discovered "soft eye-salves," or a species of ophthalmic sulphide of antimony. Both the *savants* were of opinion that these researches deserve to be continued.

Colonial and Foreign News.

To Destroy White Ants.—The Superintendent of the Government Botanical Garden, Saharanpore, India, in a recent report, mentions a paint used against white ant attacks on trees. The ingredients are said to be 1 part of resin of *gardenia gummifera* (Dikamali gum), 2 parts asafœtida, 2 parts bazar aloes, and 2 parts castor-oil cake. These are well pounded, mixed, and kept in water for two weeks. When thoroughly mixed, and forming a thick compound, water

is added to make it into the consistency of paint. The mixture is then ready, and if applied to a height of 2 feet will check not only the attacks of white ants, but also of other insect pests. The effect, it is said, will last for two years or more. The cost of preparation is trifling.

Giving Away Pills.—A firm of American patent-medicine proprietors recently adopted the idea of giving away packets of their sugar-coated pills to the public in Capetown. The packets were distributed by messengers. In one district of the town the school-children persuaded the distributors to give them more than one packet a-head, and in consequence the chemists in that quarter had a record week. The pharmacists hope to see their sugar-coated friends once more at large at no distant date.

Oil-seed Culture in Uganda.—A report just published by the Foreign Office states that the cultivation of sunflower, ground-nut, castor-oil, and sesame plants has been thoroughly tried and proved successful in Uganda, British Eastern Africa. At Kampala an oil-press to be worked by animal power is in course of construction, and by this oil will be produced on a larger scale than has hitherto been possible. It is hoped that the oils may find a market as lubricants, but the local demand is also increasing rapidly.

Austrian Soap in Servia.—Soap is largely manufactured in Servia for laundry-purposes, but the coarse nature of the native article prevents its use for the toilet, and in 1895 a value of 3,818*l.* of scented and 3,427*l.* of unscented soap was imported from abroad. The scented soap is of Austrian manufacture, and costs 10*d.* per dozen tablets, free at Belgrade. The tablets are very small, highly scented with patchouli, and packed six of the same colour in a box. Unscented Austrian soap sells, in boxes of 1 cwt., at 30*s.* 6*d.* per cwt., free at Belgrade.

The Widow's Clause in Hungary.—On the occasion of the Emperor Francis Joseph's next visit to Budapest he will be asked to receive a deputation of widows of Hungarian pharmacists, who intend to present a petition in favour of altering the law so as to make apotheker-licences transferable to the widows or orphans of pharmacists. The Hungarian Parliament is unwilling to pass such legislation, and the editor of a Hungarian pharmaceutical journal has hit upon this means for influencing it. Eleven widows have already been enrolled as *deputantes*.

Medicinal Plant Culture in Nicaragua. — U.S. Consul Thomas O'Hara, of San Juan del Norte, Nicaragua, has transmitted to the Department of State the translation of a decree signed by President Zelaya, having for its object the encouragement of the cultivation of the vanilla bean, and of the plants from which the balsams of tolu, copaiba and others are extracted. The decree provides that persons cultivating one thousand or more plants of vanilla or balsams shall be entitled to a premium of 10 cents for each plant, and shall be allowed to acquire plots of government land not exceeding 346 acres on exceptionally favourable terms.

Tea-tabloids and their Inventor.—"I hear," says the London correspondent of the *Times of Ceylon*, "that Messrs. Burroughs & Wellcome are doing a very satisfactory business in tea-tabloids. Mr. Rogers, the inventor of the tabloids, has no longer any interest in their direct sale, but he receives from the makers an annual remuneration. The Agencies Corporation are advertising 'Tabloids' (their registered trade-mark) of pure compressed tea. These may, or may not, be Mr. Rogers' tabloids. If not, it is a pity he did not secure the name." [The correspondent seems to be ignorant of the fact that the word "tabloid" is the property of the Snow Hill firm, and cannot therefore be the "registered trade-mark" of the "Agencies Corporation."—Ed. *C. & D.*]

The Eighth International Pharmaceutical Congress.—We receive from the Secretary of the Brussels International Pharmaceutical Congress a new announcement of the proceedings. The "bureau" of the Congress is now organised. King Leopold is the High Protector; the Minister of Agriculture and Fine Arts and the Minister for Foreign Affairs are Honorary Presidents; M. Buls, the well-known burgomaster of Brussels, and two other dignitaries are Honorary Vice-Presidents; Messrs. Gille, Van Bastelaer, and Ranwez are the working Presidents; Messrs. Remington, Oldberg, Carteighe, Prescott, and Ramlot are Vice-Presidents; M. Delacre, the well-known English pharmacist of Brussels, is Treasurer; and M. Duyk, of 102 Chaussée de Wavre, Brussels, is Secretary.

Morphinism in Russia.—Dr. Lembke, of Riga, has published, in a German homœopathic journal, some remarkable statements on the subject of the alleged increase of the morphine habit in Russia. He has made inquiries in all the pharmacies of the city (medical men in Riga do not dispense), and has found that between 20 and 25 per cent. of all the prescriptions contain morphia. The largest quantity in any single prescription examined by Dr. Lembke was 1 drachm in 1 oz. of water, for subcutaneous injection. This same prescription was dispensed, as a rule, twice weekly. Dr. Lembke computes that 285,000 prescriptions are dispensed in the Riga pharmacies every year, and that the quantity of morphia used in these is about 170 oz.

English as She is Spoke in Germany.—A Leipzig pharmacist recently issued the following circular to his English-speaking customers:—

Gentlemen,—I allow myself to inform you that I have bought ——'s homœopathische offizin in Dresden, which I have translated to Leipzig the 1 May a.c. and joined with my old celebrated business which I have and keep quite absolutely already since 1880.

I will take care not only to deserve for the future the benevolence and confidence which this firm and my prepossessors have had so many years, but also to augment them, which certainly I will reach as I can look back already to a successful activity as especially homœopathic-apothekary during seventeen years.

You will kindly assist me by this project, and you will kindly give me occasion to reach your satisfaction by sending me your orders which I will always execute to your entire satisfaction. Your

very affectionate

No wonder such linguists "cut us out" in business.

Australasian News.

Free Medicine Wanted.—The N.S.W. Political Labour Conference, at their meeting in Sydney on January 26, unanimously carried a proposal "That care of the public health being among the first duties of the State, we consider the practice of medicine should be a national service; the country to be divided into medical districts in charge of Government medical officers, whose services shall be absolutely free."

The Dunolly Scent-farm.—The report of the Imperial Institute on the essential oils produced at the Government Scent-farm at Dunolly, Victoria, has brought down a severe criticism upon the last-named institution. It is stated that the Farm has cost the Government 500*l.* a year, and both the Minister of Agriculture and the colonial agricultural chemist are agreed that the methods of extracting the essential oils are by no means abreast of the latest scientific discoveries, and that the management should, as soon as possible, be placed in the hands of a scientific expert. Energy has been wasted by cultivating too large a variety of scent-plants, instead of confining attention to the marketable varieties, such as lavender and otto of rose.

A Chemist Vitriol-thrower.—Cases of vitriol-throwing by men at successful rivals are comparatively rare. A singular case of this kind, which led to the arrest of one Thomas Carroll, a pharmacist of Bourke, N.S.W., has just been reported from New Zealand. Carroll was in love with a Miss Lake, formerly employed at an hotel in Sydney. At one time he was engaged to her, but she broke off the engagement and went to Auckland There she made the acquaintance of Robert Jewell, and accepted him as her suitor. Carroll, hearing of this, came over from New South Wales, and tracked Jewell and Miss Lake to a hotel at Paeroa. There he threw a bottle of sulphuric acid over Jewell, who stooped down, and had his forehead badly scarred and one eye burnt. Carroll escaped from Auckland, but was caught on board ship.

Aromadendrin.—A sample of the kino of a West Australian red gum, *Eucalyptus calophylla*, forwarded to the Technological Museum, Sydney, by the West Australian

Agricultural Bureau, has helped to clear up certain moot points in the chemistry of the kinos, for it was found that Nature had effected a separation very difficult to bring about in the laboratory. Rather more than a year before, Maiden and Smith described a new organic substance called eudesmin, found in the kino of a N.S.W. eucalyptus in association with another organic substance, Aromadendrin. This West Australian kino proves to contain no eudesmin, but a considerable portion of aromadendrin. This fact enabled Mr. Smith to make an investigation upon the pure substance, free from eudesmin, the presence of which had made it very difficult to obtain a specimen of the aromadendrin sufficiently pure for chemical investigation. When purified the substance is quite white, and has the appearance of paper pulp, the interlaced hair-like crystals giving it a peculiar matted look and a silky lustre. Eudesmin, on the other hand, has the appearance of small scales, and separates in particles.

Poisons and Antidotes.—In pursuance of powers given him under the Food and Drugs Act of 1882, the Governor of New South Wales intends to issue an order that all poisons sold shall bear a certain label approved by the President of the Central Board of Health, setting forth the best antidotes. A long list of proposed labels was published in the *Government Gazette* of January 28 last. The following are two examples:—"Oxalic acid.—Emetics. Plenty of barley-water. Powdered chalk or whiting suspended in water and given freely. Plaster or mortar scraped from walls may be substituted if chalk be not at hand." "Sulphuric acid (oil of vitriol), muriatic acid (spirit of salt), and nitric acid (*aqua fortis*).—Bicarbonate of soda or calcined magnesia in teaspoonful doses mixed with milk, barley-water, or gruel, and repeated until the acid is neutralised. Olive oil in teaspoonful doses. Oil to sores in the mouth, or at the back of the throat."

Business Changes.

Mr. C. Walker is opening a new pharmacy at Cold Bath Road, Harrogate.

Messrs. Julius Hülsen & Co., chemical merchants, of Newcastle-on-Tyne, have opened offices in London at 11 Idol Lane, E.C.

Mr. C. R. Toyne has purchased the branch business from Mr. A. W. Hall at 5 Farlow Terrace, Lower Richmond Road, Putney, S.W.

Mr John H. Gaskin, from Small Heath, has purchased the business of the late Richard S. Gould, 122 High Street, Harborne, Birmingham.

Mr. W. J. Bethune, chemist and photographic dealer, 99 Academy Street, Inverness, has removed to new and more central premises in Queen's Gate.

Mr. W. Widdowson, of Mansfield Road, Nottingham, has sold his business to Mr. Brown, a former apprentice. Mr. Brett, of Leicester, valued for both parties.

Mr. John A. Small, late of 89 Gilmore Place, Edinburgh, has retired from the drug-trade. He has disposed of his business to Mr. James N. L. Sturrock, who has been with him five years as assistant.

Messrs. J. Floyd & Co., wholesale and retail chemists and druggists, Bury St. Edmunds, have sold their business to Mr. E. T. Ainley and Mr. F. W. Childs, through the agency of Mr. F. J. Brett, of Leicester.

Messrs. Fletcher & Pater, of Retford, have dissolved partnership, Mr. Fletcher retiring. The valuation was conducted on behalf of Mr. Pater by Mr. J. Saltmer, of Hull, and for Mr. Fletcher by Mr. F J. Brett, of Leicester.

Mr. James Sturrock, chemist and druggist, has acquired the business recently carried on by Mr. Jno. A. Small, at 89 Gilmore Place, Edinburgh. Mr. Small is, we understand, retiring from business in order to pursue medical studies.

Mr. C. F. R. Pars has sold his two pharmacies at Stamford and Thrapston to Mr. G. A. Johnson, formerly with Messrs. Garratt & Chamberlain, Rugby. Mr. Pars is removing to Bournemouth, where he has bought a business equal in size to the two which he has disposed of.

Mr. William Cornell, senior partner in the late firm of Messrs. Cornell & Cornell, chemists and druggists, of 14 Tavern Street, Ipswich, has separated from his old firm, and succeeded to the old-established business of the late Mr. John Taylor, in Orwell Place, Tacket Street, Ipswich.

Mr. George Yaxley, sole agent for the Beeman Manufacturing Chemical Company, the Darby Manufacturing Chemical Company, Baltimore, the Springsteen Medicine Company, Cleveland, Ohio, and the Charles Wright Company, has removed from Byegrove House, Merton, to City Office and Warehouse, 34 Minories, E.C.

Owing to the large increase in their business, Smith's Advertising Agency, of 132 Fleet Street, have just added new offices at 82 Fleet Street, thus doubling their already large establishment. The new branch will be exclusively employed in transacting advertisements for the provincial papers, the head office retaining all the London work.

The following is a good example of what can be done with an old-fashioned shop-front, which Mr. F. W. Bates, Brook's Bar, Manchester, has just finished. Formerly the exterior of his shop was very much behind date, and the architects, Messrs. M. Seanor & Sons, of Manchester, have, by propping

the front of the building with two iron pillars, thrown out the entire shop-front, thus increasing the floor-space of the inside of the pharmacy 1½ yard all round. The front is of polished American walnut and immense sheets of bent plate-glass, and very effective cornice of cartonpierre presents a very handsome and elegant appearance. Mr. Bates has now certainly one of the finest shop-fronts in Manchester.

Mr. C. G. Caldecott, M.P.S., has opened a new business in Wrexham, under the style of the Regent Pharmacy. Some striking features are about the shop. First, as to the front. The window is a 10½-foot square of plate-glass, and is flanked by uncommonly coloured stone piers of red sandstone with a splash of purple. The fitters, Messrs. S. Maw, Son & Thompson, with plenty of space and height at command, have achieved a striking and attractive success internally. Chippendale-finished fixtures line the two walls on each side and the screen at the back, suitable scroll-carving surmounting each. There are several novelties—*e.g.*, an enema-cupboard, formed simply by slitting a shelf wide enough to allow the rubber tubing to hang through, and not wide enough to allow the shield to pass. A dozen slits on alternate sides of the top shelf gave accommodation for two or three dozen enemas. Maw's fig. 4 sponge-case, opening in front instead of at back, is a distinct improvement. Worth copying also is a label-case, 4 inches deep from back to front, 6 feet high, 5 feet broad, shelved at every 4 inches; consequently every label is to the front—not one out of sight. Mr. Caldecott's own artistic eye has helped him in the fitting up.

Pharmaceutical Society of Ireland.

THE monthly meeting of the Council was held on April 7. Present:—Mr. W. F. Wells, jun., President, in the chair; Mr. Downes, Vice-President; Mr. Beggs, Treasurer; Messrs. Conyngham, Grindley, Baxter, P. Kelly, Hayes, Dr. Walsh, and Professor Tichborne.

The Constabulary and the Pharmacy Act.

A letter was read from the Inspector-General of the Royal Irish Constabulary consenting to receive a deputation from the Council with reference to the carrying out by the Constabulary of the Pharmacy Act. This deputation waited on the Inspector-General on the 23rd of last month.

The President said the deputation consisted of the Vice-President, Mr. Grindley, and himself. They were very courteously received by the Inspector-General—as had always been the case when they waited on him—and he gave them a good deal of his time. They laid before him certain facts which had come to their knowledge in connection with the carrying out of their Acts. They had found that in many instances the Constabulary did not take any trouble whatever about them, whilst in many other districts great attention was given to the matter by the police-sergeant, who worked the Acts very well. In one case the police served notices for them, but two years afterwards the inspector belonging to the same place wrote to say that he could not allow his men to carry out the pharmacy law or look for evidence. The Inspector-General said that if in future the Council would write to himself personally and lay the facts of particular cases before him, he would take care that the police carried out the Poisons Act, but that as regards the Pharmacy Acts, he did not see his way to their taking any action themselves. He was, however, altogether in favour of assisting the Council in every way that was within the sphere of duty of the police.

The Enniscorthy Case.

A letter from Sergeant Doherty, Royal Irish Constabulary, Enniscorthy, reported that John Kinsella, assistant in the Enniscorthy Co-operative Society's stores, had been fined 5*l.* for selling Hayward's sheep-dip without being legally qualified so to do. The letter stated that on an application of the defendant the Magistrates had withheld their warrant for the levying of the fine, as the defendant intended to apply to the Lord Lieutenant for a remission of the penalty, on the ground that he had acted in ignorance of the law, and that he had not previously been cautioned. The sergeant stated that those grounds of appeal were not substantial. There were also letters on the subject from the solicitors of the Council, Messrs. Casey & Clay, Dublin, and George F. Fleming, Enniscorthy.

The President stated that at the hearing of the case it appeared that one of the Magistrates on the Bench was chairman of the company, and another was a member of it. The Society's solicitor objected to their sitting on the Bench, and one of them became very wrath, but in the result both left the Bench. He (the President) thought a letter should be written to the Inspector-General asking him to submit Sergeant Doherty's name to the Reward Committee of the force, as it would not be in accordance with the rules of the force for him to receive any part of the penalty. In this case it would not have been possible to proceed against anybody for keeping open shop. They had, however, got a conviction against the seller; then the Magistrates said it was very hard on the assistant that he should have to pay the penalty.

The Record Reign.

The Vice-President moved that a special committee of the Council should draft an address of congratulation to her Majesty on the celebration of her sixtieth year of sovereignty, and that the committee should also consider whether by any function the Society could join in the public celebration of the event. He thought it would be right for the members of the Society as loyal subjects to join in the general jubilation.

Professor Tichborne seconded the motion. Everybody must feel respect for Her Majesty. She had been an excellent Sovereign and a good woman, and her reign had been one of the most glorious the country had ever had.

Mr. Conyngham supported the motion.

The President said they had men of different political and religious opinions amongst them, but he was sure none would object to the presentation of the proposed address. As a woman and as a Sovereign their Queen had no equal.

The motion passed unanimously, and on the suggestion of the President it was resolved that a committee of the whole Council should deal with the matter.

Educational Meetings.

The Vice-President moved that the following be added to the regulations:—

> That the School Committee arrange the holding of meetings of an educational character, at intervals; and, as a stimulus to study and research, may appropriate, with the sanction of the Council, the profits from the school-funds for the purpose of prizes or expenses.
>
> Members and registered students shall be admitted free to all such meetings, except lectures, admission to which shall be at the discretion of the Committee.
>
> That for the purposes of these meetings the School Committee may obtain the assistance of a committee of six, to be elected by and from the members attending such meetings, one of whom shall act as hon. secretary, for the purpose of keeping minutes and correspondence.

He had given a good deal of consideration to the idea of carrying out educational meetings jointly with the Students' Association, and had drafted rules with that object; but these proved to be unworkable, and he consequently arrived at the conclusion that it would be better for the Council to organise educational meetings of their own, and to leave the Students' Association to work for themselves.

Mr. Grindley asked how were the "committee of six" to be selected.

The Vice-President: From the general body of members who make use of the meetings; and they would be associated with the School Committee for the purpose of conducting the meetings.

Mr. Grindley seconded the motion, which was unanimously agreed to.

Chemistry in the Preliminary.

Professor Tichborne moved

> That it is desirable that Elementary Theoretical Chemistry be made a compulsory subject in the Preliminary examination. This regulation not to come into force until January, 1898.

Professor Tichborne said a feeling had long been prevalent in the Council, and it was emphasised by recent reports, that the theoretical knowledge of their students was not on a par with their practical knowledge. Formerly theoretical chemistry was a compulsory subject in the Preliminary examination. Afterwards it was made optional, and many members now thought the old system should be reverted to. The other parts of the Preliminary examination would be left unchanged.

Mr. Conyngham seconded the motion.

The President and Dr. Walsh having supported the motion, it was unanimously agreed to.

An Appeal to Non-subscribing Licentiates.

Mr. Conyngham moved—

> That a circular be printed, drawing the attention of all pharmaceutical chemists, chemists and druggists and registered druggists to the benefits derived from the Pharmaceutical Society, and requesting those who do not subscribe to do so, as the working of the Society depends on the support it obtains from the general body of qualified men.

It was desirable, Mr. Conyngham said, to get all who were registered as subscribers to the Society. Year after year subscribers were dropping off.

Professor Tichborne seconded the motion, and asked if there was much falling off in the number of members.

The President: Not amongst pharmaceutical chemists; they are keeping well up. The registered druggists are falling off, but that you must expect. I do not suppose we have three from the registered druggists of Belfast.

The Vice-President: They have a fine Society in the North, and they won't support two societies.

The President: As to getting the Belfast gentlemen to subscribe, what is said there is that we are trying to sit on them.

Mr. Kelly: I have spoken to a great many gentlemen about their not subscribing, and they say it is not from want of sympathy with us.

The President: We have a much larger proportion of supporters from amongst our licentiates than they have in the Society at the other side of the water. We have worked as much as we could for the druggists; most of the prosecutions for the past few years have been for their benefit.

Mr. Grindley: We work for them as well as for the pharmaceutical chemists.

The Vice-President: Ten times as much for them as for ourselves.

The motion was then passed, Mr. Conyngham agreeing to draft the circular.

New Member.

On the motion of Mr. Grindley, seconded by the Vice-President, Mr. J. F. O'Neill, of Carrick-on-Suir, was elected a member of the Society.

Drug-contract System of Ireland.

By X. Y. Z. (95/1).

I HAVE read with considerable interest your remarks on the drug-contract system in Ireland, together with the letters of your correspondents. "The A B C of it" puts the whole system in a nutshell—"rotten from top to tail." But it was not to-day nor yesterday this was discovered. I have heard everyone who knows anything about it for the past thirty years condemn it. The heads of the departments are aware of the corruption. The inspectors know it. Everyone who has aught to say to it knows it; but still it is allowed to exist. I should not wonder if every other branch of the Poor Law system is as corrupt, but at the present it is the drug-department which claims our attention.

Only a few weeks ago an intelligent guardian told me that he had long since ceased to take the slightest interest in the drug-contracts. He was aware the system was corrupt, but he could not remedy it. They tried to take the lowest tender (although he did not approve of the principle), and they generally managed to accept the highest. He thought the thing should be left to the doctors, as the guardians knew nothing about physic.

Another guardian told me it was simply a matter of "Scratch me, and I'll scratch you." If my brother-in-law is a local chemist, and I want him to get the contract, I must assist Guardian Blank to get the boot-contract for his aunt, and so keep the money amongst ourselves.

The way it is done is this:—"A" is the local contractor; "B" is his friend—a guardian, a relation; "C" is a mutual friend, a cover. This "C" does all the work in the interests of the Union? He takes a particular interest in the medicine-contract; he knows more about it than anyone else, or pretends he does, and, as a consequence, he is always consulted.

The great day of election arrives. All tenders—bread, clothing, milk, drugs, for the six or twelve months—are to be considered (within the space of about two hours); almost every guardian in the Union is bound to attend to see justice (!) done; the Board-room is crowded; the excitement is intense. Sometimes a guardian brings in his pocket, or, "was handed, the tender as he was entering the house!" Well, the Chairman appoints different committees to look into the several tenders and report. He calls on Mr. Black to kindly take the bread-tender along with Mr. Short and Mr. Long (one of these gentlemen is probably a baker). Mr. Cute is to take the boot-contract with Mr. Tagg and Mr. Cobbler. "And shall I take the drug-contract, Mr. Chairman?" asks Mr. C. "Oh, yes, certainly; and whom shall I name with you? I suppose, Mr. B. and the medical officers, who are in attendance, I understand?"

The tenders are then opened, usually four or five in number, each doctor being handed one; but Mr. C. takes very good care to secure that of A., while Guardian B. writes down the prices and presides.

"We shall now call out ten or fifteen items, gentlemen, and compare the prices. What is No. 42, Doctor X.?"

"Excuse me, Mr. Chairman of Committee, I understood it was the doctors who were to select the items."

"Excuse me, sir, I am the presiding guardian, and I merely require your assistance. Read out the price of No. 42 in the tender you have."

Very good, sir—8*d.*; No. 2, 7*d.*; No. 3, 9*d.*; No. 4, 1*s.*; No. 5 (Mr. C. last, observe), 2*d.*?

Again, No. 96. No. 1, 6*s.* 8*d.*; No. 2, 5*s.*; No. 3, 8*s.* 9*d.*; No. 4, 7*s.* 6*d.*; No. 5 (again last!), 2*s.* 6*d.* per quart. The word "quart" is in this tender substituted for the printed word "gallon." This is a very favourite "tip," and is allowed to pass unchallenged.

Again, take No. 384 (trusses). No. 1, 21*s.* 6*d.* per dozen; No. 2, 11*s.* 9*d.*; No. 3. 15*s.* 6*d.*; No. 4, 18*s.* 6*d.*; No. 5 (last again!), 2*s.* *each.* It is easy to see who is winning!

Again, No. 390 (bottles). No. 1, 2*s.* per dozen; No. 2, 1*s.* 6*d.*; No. 3, 10*d.*; No. 4, 6*d.*; No. 5, fr. (meaning *from*), 2*d.* These little letters mean a great deal.

I think I have written sufficient to show you how the thing is done. Let anyone who can contradict me do so. It is my firm belief that the supplies of best quality for any Union in the country could be obtained in the open market at fully 75 per cent. less than is usually paid for very inferior goods, taking bottles, package, carriage, and everything else into account. Bear in mind the guardians, as a rule, pay promptly, and the supplies are only required every two or three months, and the account is worth having.

I happened to be on a drug-committee in a Union not 1,000 miles from Cork some years ago, when one of the medical gentlemen summoned to "attend and give their assistance" objected to the laymen taking any active part in the scrutiny. Well, he was simply told that he was there to do as he was bidden; that the laymen were the guardians, and although he protested against such a farce the thing was proceeded with.

I have not seen that doctor at any committee meeting since, and he informs me he has never since been summoned, greatly to his delight, as he used to lose half a day and get no thanks from anyone. As a rule, the doctors care little who the contractor happens to be, local or otherwise.

Now for the remedy. I quite admit it is one thing to point out failures, and quite another to suggest a remedy.

Several suggestions have been offered in the medical journals from time to time, with which I shall not trouble you now. I wonder how the following would work:—

1. Revise the official list, make it up to date from year to year; delete the 160 obsolete remedies, and substitute modern ones, such as emp. belladonna spread on calico for emp. belladonna, a B.P. for a bleeding-basin, &c.

2. Let all tenders for drugs be "considered" in a business-like way by the Board of Control in Dublin, the contract for the separate Unions to be placed locally if prices are within the mark.

Objection may be raised to this on the plea that "whoever pays the piper may be allowed to select the tune." But does not the Board of Control in Dublin pay half the entire medical expenses? (I hear they are about declining to do so in future, by-the-bye.) And even if they did not the guardians ought to be only too delighted to be clear of a job they know nothing about, and have proved themselves totally incompetent to deal with.

3. Any drug-house not giving satisfaction in the supply of drugs, &c., to be debarred from contracting in future. This would have a wholesome effect on dodgers.

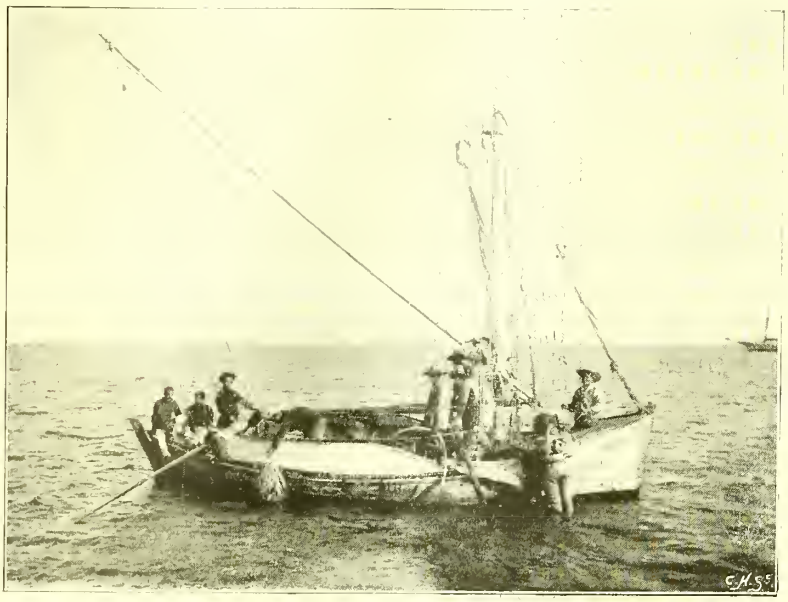
4. Three pharmaceutical chemists (practical men) to be appointed as inspectors of drugs and dispensaries, whose duty it would be to visit each dispensary and workhouse in Ireland at least once in two months, reject any drugs they considered inferior, return them to the contractor and deduct off invoice, and check weights and measures, &c.

5. These three inspectors, together with an analyst, to meet in Dublin and decide all matters relating to drugs.

These are very rough ideas. I merely suggest them as practicable, and leave the details to be worked out by more competent brains. When contractors learn they have business men to deal with they will be more careful as to their supplies.

British Honduras Sponge.

On several occasions we have referred to the concession which Messrs. Cresswell Brothers & Schmitz, of Red Lion Square, W.C., received from the British Honduras Government in regard to the sponge-fishing around the coast of that colony, and we are able to-day to add to that information engravings of two photographs taken by a Belize photographer showing the sponge-fishing boat actually at work, and a portion of Messrs. Cresswell Brothers & Schmitz's staff sorting and picking the sponges at Belize. We consider it to be a satisfactory proof of British enterprise that a London firm should have undertaken, practically for the benefit of the colony, to exploit the sponge-beds; for the firm entered upon the enterprise with little hope that the thing could be made to pay, and they sent out from the Mediterranean a staff of experienced divers and fishers, who, during the past two years, have made a thorough survey of the coast, and have mapped out the sponge-beds, obtaining thereby an indication of the nature of the sponges and the extent to which they are distributed. As it happens, the first reports of the sponge-beds referred to a fine quality of sheep's-wool sponge as being obtainable, but it is now found that they are localised in a small area, and the majority of the sponge obtainable is of what is generally known as "saddler's" quality. Still, Messrs. Cresswell Brothers & Schmitz's enterprise has been the means of teaching colonial residents all about sponge-fishing, and it is noteworthy in regard to this that the Caribs have proved to be far more intelligent workmen than the negroes. The Government concession given to the firm is now drawing to a close, and when it terminates the sponge-fishing will be free to all who care to take out a Government licence. The first of our engravings shows the sponge-boat, and a diver rising to the surface and his catch being handed up. The ladder upon which he stands is quite short, and when he drops off it he descends as slowly as the extremely heavy helmet and leaden-soled shoes will permit him. His mate stands at the bow of the boat with the life-line in his hands; at the stern are two other divers waiting their turn to descend. Native workmen have been trained to dive and fish, and it is believed that at the end of the three years' monopoly there will be sufficient skilled labour to enable the withdrawal of the large staff of Mediterranean sponge-fishers whom Messrs. Cresswell Brothers & Schmitz sent out at their own expense to inaugurate the industry. In the second engraving it is possible to pick out Caribbean and negroid faces. From the first Caribs and negroes have worked alongside the Greeks in order to obtain a thorough knowledge of the methods adopted in treating and sorting sponges, as well as in procuring them.



We had a talk with Mr. Ernest Cresswell regarding the Mediterranean sponge-fisheries, which are practically at a standstill just now, owing to the Cretan difficulty and the belligerent attitude of Turks and Greeks on the Macedonian frontier. A considerable quantity of sponge has been obtained from the Cretan coast, but all fishing operations on that field have been stopped for many months past; indeed, it may be said generally that the sponge-fishing in the Mediterranean will be of little account until the immediate Eastern question is settled. This circumstance has not so far affected the market value of sponge to any great extent, because the stocks in London are good on the whole.

In addition to the pictures given on this page, Messrs. Cresswell Brothers & Schmitz have several other photographs which are interesting, and which we would recommend anyone who is to give a lecture on sponges to get for lantern-plates.

An Emergency.—The Doctor: "Mrs. Brown has sent for me to go to see her boy, and I must go at once." His Wife: "What is the matter with the boy?" The Doctor: "I don't know; but Mrs. Brown has a book 'On What to do Before the Doctor Comes,' and I must hurry up before she does it." —*Puck.*

Dispensing Difficulties.

A collection of exceptional difficulties met with by *C. & D.* subscribers and their employés, and contributed in the Postcard Competition for February.

ONE of the reasons that we had in suggesting "Dispensing Difficulties" for our February Postcard Competition was the conviction that dispensers are continually meeting with prescriptions which give them a good deal of trouble, and once they have solved them they hug themselves for a moment with satisfaction and think no more about it. Most dispensers are of that class; they appeal to no *C. & D.* dispensing-column for aid, and when they solve a difficulty they do not straightway work it up into a paper for their local association as they might, perhaps should, do. We do not suppose that the present competition has tapped a tithe of these men, but the moral of the whole is when you have a novel difficulty and solve it, or even if it beat you, let your brother craftsmen know of it.

We now print a small selection from the postcards received, and shall continue to print the notes for a week or two until they are exhausted, when the award will be made.

Fresh Precipitates most Soluble.

Calcii phosph.	ʒiij.
Acid. citric. q.s. ad solutionem	
Syrup. aurant.	℥j.
Aq. dest. ad	℥vj.

M.

Take one tablespoonful three times daily.

The prescription of a well-known West-end physician. After rubbing the phosphate of calcium down with ʒvj. of citric acid and allowing it to remain for several hours, a great part of the phosphate remained undissolved. The difficulty was overcome in the following manner:—The phosphate of calcium was dissolved in dilute hydrochloric acid and reprecipitated with ammonia. The precipitate after being well washed was found to be completely soluble with ʒiv. of citric acid, and thus the mixture was dispensed with a minimum quantity of citric acid.—J. G. C.

Ichthyol and Syrup.

Ammon. ichthyol.	ʒij.
Syr. ferri iodi ad	℥ij.

Every plan possible was tried to mix this, and the only way it can be done is by adding gr. xv. p. g. trag. to the syrup before adding the ichthyol. The above turned out to be an interesting dispensing difficulty solved, as I afterwards heard that two first-class dispensing-houses in London failed to dispense it mixed or presentable.—John Martin (Crieff).

Petroleum-emulsion.

I have recently had to make a considerable quantity of emulsion with ordinary burning-petroleum, ♏xv. for a dose, to be nice in appearance and palatable. I have found the following answer well. It pleases the doctor and patients, but I have not had courage to taste it myself:—

Daylight petroleum	℥iiss.
Powdered acacia	ʒx.

Mix thoroughly, and then add at once—

Distilled water	℥ij.

Mix well until thoroughly emulsified, and add—

Elixir of saccharin	℥j.
Essence of bitter almonds	♏160
Distilled water to	℥xx.

Mix.

Dose: A dessertspoonful.

H. Eley (Birmingham).

Silvering Pills.

I have found the following simple method very useful in silvering pills which have not the desired firmness:—Place the pills, with a drop or two of dilute mucilage (about 1 to 4), upon the lid of a lozenge-tin, and rotate them rapidly, so that they become appreciably moist without adhering together. Continue to rotate until they are almost dry, then transfer to the silvering-pot and gently shake. The operation is not only expeditious, but it has this advantage—that the pills remain perfectly round, which is not usually the case when done in the ordinary way.—H. Bridges (Norwich).

Effects of Order of Mixing.

Green Colour Avoided.

Antipyrini	gr. xv.
Vin. antim.	ʒj.
Spt. æther. nitrosi	ʒij.
Syr. tolu	ʒiij.
Liq. ammon. acet.	ʒiij.
Aq. chlorof. ad	℥ij.

Sig.: ʒj. every four hours.

Knowing that antipyrin and spt æther. nit. were incompatible, I, after various attempts to make a presentable mixture, found that the antipyrin dissolved in the chloroform-water and added last to the other ingredients formed a clear mixture.—Matthew Jack (Glasgow).

The Milk Becomes Clear.

Liq. carbonis detergent (Wright's)	℥j.
Spt. tenuior.	℥ij.
Glycerini	ʒiss.

M.

By making this prescription I have always had it cloudy until recently, when, by another method of mixing, I was able to obtain quite a clear mixture, which was preferable—viz., by adding ʒx. S.V.R. to liq. carbonis, then the ʒiss. glycerine, stirring round, while adding the ʒvj. water quickly.—T. P. Owen (Cardiff).

Makes Diffusible Precipitates.

Lotio. plumbi dil.	℥ij.
Lotio. nigræ	℥ij.
Glycer. acid. carbol.	ʒiij.
Spt. menth. pip.	ʒij.

M. Ft. lotio.

To make this haphazard means all the sub-oxide being thrown down, and a sticky mass of it stuck all round the bottle. My way out of this difficulty is to mix the two lotions and the gly. ac. carb., and add with continuous agitation the spt. menth. drop by drop.—W. V. Johnston (Dublin).

Quin. sulph.	gr. xxxij.
Ac. hydrobrom. dil.	ʒij.
Liq. arsen. hydroch.	♏48
Sod. salicylatis	ʒij.
Aq. ad	℥viij.

M. Ft. m.

Free salicylic acid is formed if dispensed as above, however much it is diluted, and forms in one mass at bottom of bottle. Therefore, dissolve quinine in ac. hydrobr. dil. and some water; rub down sod. salicy. with ʒiss. pulv. trag. co. in half the water; then mix these in mortar gradually, and add the liq. arsen., a little diluted, and make up to ʒviij. with aq. dest. Label: "Shake the bottle."—H. Jenkins (Brixton).

Digitalis and Iron.

Tr. ferri mur.	ʒj.
Tr. digital.	ʒj.
Acid. phosph. dil.	ʒij.
Syr. flor. aurant.	ʒiv.
Aq. ad	℥vj.

M.

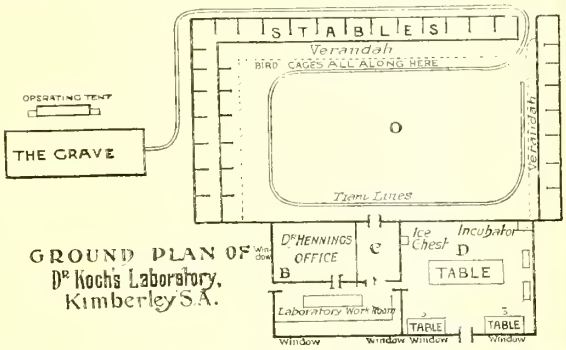
This had previously been dispensed evidently in the order in which it is written, and the mixture was turned out almost black. I always take the precaution of adding the acid phosph., to convert the iron into phosphate, and adding the tincture last, which results in the mixture not being otherwise coloured than if the digitalis alone were added to 6 oz. of water.—W. Vincent Johnston (Dublin).

The offices of The Chemist and Druggist will be closed from Thursday evening, April 15, to Tuesday morning, April 20. We have received notes from Messrs. Oppenheimer, Son & Co. (Limited) and from Messrs. Moise & Marshall (Limited), announcing a similar holiday, and we believe that a larger number than ever of the London wholesale houses are adopting the same course this year.

Tracking the Rinderpest.

(By a South African Correspondent.)

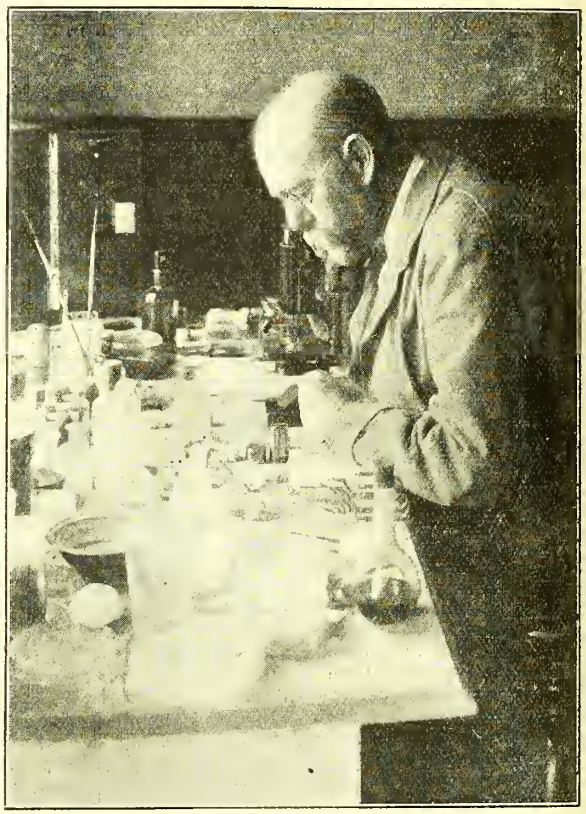
DR. KOCH, the German bacteriologist, is still in South Africa, whither he went at the invitation of the Government of Cape Colony for the purpose of trying to discover a cure for rinderpest. The place where the doctor is conducting his research is a building about two miles from Kimberley, which has been lent for the purpose by the De Beers Consolidated Diamond Mining Company, who have also executed all the alterations required to convert it into a research laboratory. The grounds are known as the Victoria Floors and Compound, and the arrangement may be better understood by a reference to the accompanying sketch.



Room A contains benches, cupboards, and a table, with three steam sterilisers for disinfecting the different instruments after operations. Dozens of clinical thermometers rest in wet cotton-wool saturated with sol. hyd. perchlor., while near a window stands a beautiful microtome for the preparation of the microscopical specimens.

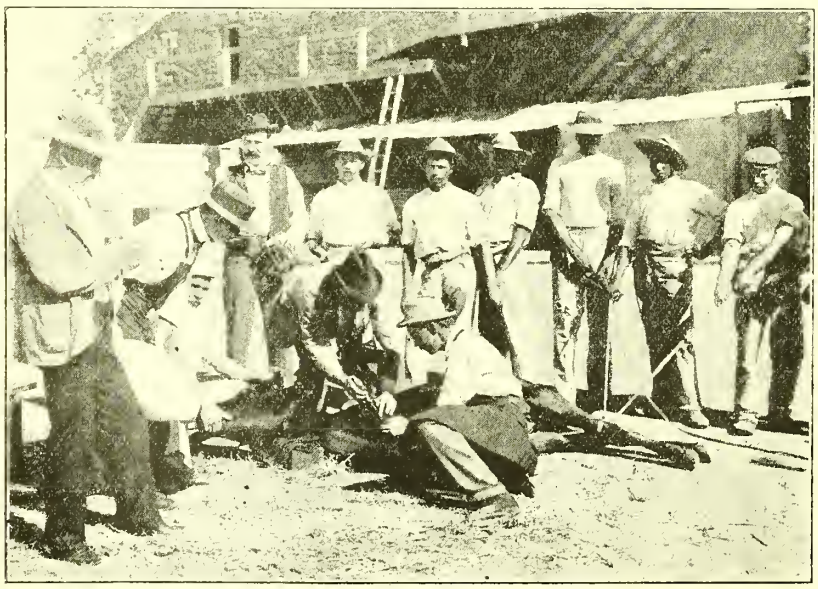
Adjoining this room is the office (B) of Dr. Henning, the veterinary surgeon to the Orange Free State, who keeps a record of the different animals experimented upon.

The larger room (D) is very lofty, and well lighted by two windows, in front of which Dr. Koch and his assistant, Dr. Kohlstock, work their microscopes. In this room is also a large table, on which rests the very elaborate apparatus used, and at which Mrs. Koch sits sketching, in colours, anatomical specimens of diseased animals for future reference. These coloured plates give a much better idea of the nature of the disease than could be obtained from photographs in monotone.



Dr. Koch in his Laboratory at Kimberley.

Along the walls is arranged the bacteriological equipment (made in Germany) of the establishment. Dr. Koch has also an incubator, heated by paraffin, and an ice-chest for the preservation of specimens. Hanging in one corner are



Dr. Koch Inoculating an Ox.

a number of "Khaki" suits. This suiting is the official uniform of the staff. It is easily washed and disinfected. A birdcage hanging in one window contains a chameleon, reputed to be fruitlessly engaged in endeavouring to change its colour to a "canary."

Through the small storeroom (C) access is obtained to the yard, or "compound," bounded on three of its sides by

1 2 3 4 5
6 7 8

A Group of Rinderpest-fighters.

1. Dr. O'Donoghue. 2. Dr. Henning, Veterinary Surgeon to the Orange Free State. 3. Dr. Phillips. 4. Dr. Hutcheon, Veterinary Surgeon to the Cape Colony. 5. Mr. W. Nicoll, Manager of De Beer's Mines. 6. Dr. Koch. 7. Madame Koch. 8. Dr. Kohlstock, Dr. Koch's Assistant.

stables of corrugated iron, with a verandah extending the whole length.

A small tram (with an inoculated mule as motive-power) runs all round this yard, and has its terminus about 500 yards distant on the top of a large heap of exhausted diamondiferous "blue clay," where is dug a grave about 30 feet wide, 10 feet long, and 10 feet deep, for the carcases of animals, which are buried under a thin layer of soil freely sprinkled with Jeyes' fluid. Close beside this grave is erected a cool, airy canvas shed, open at the bottom, where *post-mortems* are conducted.

On each side of the shed stands a bird-cage, containing a fine specimen of a secretary bird and a vulture respectively. The latter is fed entirely on "rinderpesty" beef, so far without any ill effects.

Returning to the compound, we notice a graceful springbuck, which was suffering at the time of my visit from a mild attack of rinderpest, but progressing favourably.

Dr. Koch has in his menagerie, for experimental purposes, sheep, goats, pigs, dogs, rabbits, mice, guinea-pigs, meercats (resembling the European squirrel), and a crane, the latest addition to the happy family being a pair of fine ostriches, while camels have been ordered "to arrive."

The oxen, goats, &c., are kept in the yard while being experimented upon, but immediately they begin to show signs of murrain, they are isolated in the closed stables, so that no infective matter coming from them shall be carried about by the wind.

The method of disinfection all through is perfect; Dr. Koch does not leave the least loophole for the escape of germs.

Among the first animals "salted" was a white cow in calf, and Dr. Koch is now awaiting the result of his very interesting experiment—whether the calf, when born, will be immune from rinderpest or not.

Guinea-pigs, while very susceptible to most diseases, are quite immune from rinderpest.

The doctor's success in discovering a preventive of rinderpest is now known to the world, and considering the short time he has been at work in South Africa the result reflects credit on himself, his staff, and the colonial government (represented by Dr. Hutcheon, the Veterinary Surgeon to the Government of Cape Colony), who spared no expense in fitting up and supporting the scientific station.

At present, Dr. Koch is principally occupied in instructing pupils from all parts of South Africa in the preparation and use of his remedy. He has had no time as yet to study the life history of the microbe.

New Books.

Adressbuch der Seifen- und Parfümerie-Fabriken und der mit der Seifen- und Parfümeriefabrikation verwandten Geschäfte von Deutschland, Oesterreich-Ungarn und der Schweiz. 4th edition. Cardboard covers. 12m. (Schulze & Co., Leipzig.)

Andés, L. E. *Vegetable Fats and Oils: their Practical Preparation, Purification, and Employment for various Purposes, their Properties, Adulteration, and Examination.* Translated by Charles Salter. With 94 Illustrations. 8vo. Cloth. Pp. xvi. and 318. (Scott & Greenwood.)

Bailey, G. H. *Inorganic Chemistry.* 1st Stage. Ed. by W. Briggs. Diagrams 12mo. Pp. 218. 2s. (Organised Science Series.) (Clive.)

Bailey, G. H. *The Tutorial Chemistry. Part I.: Non-metals.* Edited by Wm. Briggs. University Tutorial Series. Post 8vo. Pp. viii. and 236. Cloth. 3s. 6d. (W. B. Clive.)

Bocquillon-Limousin, H., Pharmacien de 1re Classe. *Formulaire des Médicaments Nouveaux pour 1897, avec une Introduction par Henri Huchard, Médecin de l'Hôpital Necker.* (*Formulary of New Remedies for 1897, with Introduction by Henri Huchard.*) Small 8vo. Cloth. Pp. viii. and 302. (J. B. Baillière, Paris.)

Brown, J. O. *Practical Chemistry. Part I.: Qualitative Exercises and Analytical Tables for Students.* 4th ed. 8vo. Pp. 62. 2s. 6d. (Churchill.)

Chambers, T. G. *Register of Associates and Old Students of the Royal College of Chemistry, Royal School of Mines, and Royal College of Science.* Illustrated. 8vo. 7s. 6d. (Hazell.)

Clarke, John H., M.D. *Heart Repertory.* 8vo. Cloth. Pp. 80. (E. Gould & Son.)

Jones, Charles. *The Business Man's County Court Guide: a Practical Manual of the Ordinary Procedure in these Tribunals, especially with reference to Tradesmen's Disputes, and the Recovery of Trade Debts.* 2nd revised edition. Post 8vo. Cloth. Pp. 276. 2s. 6d. net. (Effingham Wilson.)

The Dentists' Register: Printed and Published under the Direction of the General Council of Medical Education and Registration in the United Kingdom. 1897. 8vo. Cloth. Pp. 236. 3s. 4d. (Spottiswoode & Co.)

The Medical Annual and Practitioner's Index: A Work of Reference for Medical Practitioners. By various Contributors. 1897, fifteenth year. 8vo. Cloth. Pp. lxxv. and 851, with coloured plates and illustrations in text. 7s. 6d. net. (J. Wright & Co., Bristol.)

The Medical Register: Printed and Published under the Direction of the General Council of Medical Education and Registration of the United Kingdom. 1897. Large 8vo. Cloth. Pp. 1,555. 6s. (Spottiswoode & Co.)

Notes on a Celest Indian Pharmacopœia.

By Dr. Walter H. Ince (Trinidad).

Many centuries ago it was written that "of making books there is no end." This in the case of some is individually true; for instance, one who writes a book on chemistry or physics begins a task which must, of the nature of things, be unending. The moment the work goes to press it is already out of date. A Röntgen startles us with a newly-revealed light, and unsuspected elements turn up in common air.

Thus it is with our present B.P. No sooner does a new edition make its bow before the critical public than the press is deluged with abuse, suggestions for improvements of methods and formulæ, for wholesale expurgations and minor deletions. Editors must soothe themselves with Æsop's threadbare tale of the man, his son, and his ass, and flatter themselves, in spite of critics, that they do *not* resemble the last.

Rumour, with its hundred tongues, has more than hinted that in the coming edition other Pharmacopœias will be embraced. The "guide, philosopher, and friend" of the Indian and Canadian M.D. will be incorporated in this monumental work, representing the collective wisdom of many wise men.

And yet, with all respect due to those responsible for the new standard of pharmacy, I might suggest that there are more Pharmacopœias in the East and West than are dreamt of in their philosophy.

These Pharmacopœias are not merely collections of theoretical formulæ, to be learnt by the student and ignored by the manufacturer, but actual working recipes.

Unfortunately they are for the most part unwritten, and when written they are kept strictly private. It was, however, my good fortune to obtain a West Indian Pharmacopœia, the property of a lady-doctor from Martinique.

When I say "Pharmacopœia," I mean more than that sacred word conveys, as the native Pharmacopœias combine formulæ and receipts, modes of application and uses, together with suitable prayers and invocations—the apotheosis of a Pharmacopœia with a Companion.

The book in my possession dates from about the first quarter of this century; it is in manuscript, compiled by three authors, and time, damp, and tropical insects have made havoc amongst its pages.

The following translated extracts may interest some readers, and possibly some of the revising committee:—

Composition to Ensure Luck at Cards.

You take your urine your cards and money you go to the cemetery entering the door you make a sign of the cross without looking behind you when you come to a tomb you make a hole and request death to play you place your money the water and the cards and close the hole you return on going out of the door of the cemetery you make the sign of the cross you return in nine days to the same place for your articles and take half and give death half for his payment.

This is a literal translation: in the original there are neither stops nor capitals.

The above is, perhaps, not strictly medical. The following, however, is worthy of notice:—

Composition for Stomach-ache.

9 leaves calbrace
9 leaves bracoclète
9 leaves marchant-noire
9 leaves bra-mortel
9 leaves mapourite

a piece of laloie, a little zèbe à bleu, and a small roasted calban, add water to the composition, three spoonfuls of orange juice, and add a few green peas three times a day for nine days.

(This receipt is followed by a ?).

Among many of the numerous formulæ interspersed with prayers are found:—

"Composition for everything in the house." (This embraces much, but is vague; the text throws no light on the matter.)

"Composition for all the animals." (Equally vague.)

"Composition for poison."

"Composition to slowly kill a person."

"Composition to find out what is happening at a distance."

"Composition against poison."

One naïve "composition" to kill at a distance includes an Orison for the soul of the departed in Purgatory.

I might conclude in the original language with a composition which is of interest to all of us, and if it worked I fear that this or any pharmacopœia would become useless—namely, "How to get rich."

"*Composition pour avoir la fortine.*"

"Vous allez un jours du vendredee au pieux du santissive vous fouller en lantour du santissive en midi juste vous l'enlever le pieux en disant ce pour la fortine vous metre un piece dargent en bat du santissive et vous mètre dans une bratte et vous mettrez devant votre maison en donnant un peu de leau ou un morceau pain ou un peu laitte ou un peu sue ou un peu farine tous les jours me ne laissez pas personne le toucher en moyennant que vous ceul et vous la freuss a lhonneur du prière du saint Esprit.'

The lady-doctor had the reprehensible habit of dispensing her own drugs. Among these were found mercuric oxide (red), mercuric iodide, arsenic, dried Guinea-pepper, seeds of the mamie-apple, a pack of cards (incomplete), black and white thread and pins, needles, cockroaches, dried sections of snakes, dried leaves of the Zeiba or Jumble-tree and other bushes, bones and hair (human), dhatura-seeds, and a host of other articles too numerous to mention.

Unfortunately for the lady-doctor the police, who have no romance, interfered. Whether they objected to a medical woman dispensing her own drugs, or whether they objected to her having neither medical nor pharmaceutical licence, I know not.

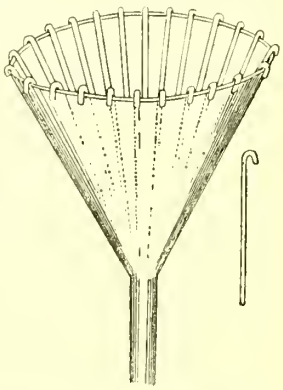
She was taken before the Magistrate on a preliminary charge of "attempting to administer drugs with the intent to do grievous bodily harm," but finally obtained free board, lodging, and healthy exercise, on the less heroic charge of attempting to obtain money on false pretences. Hence it was that her Pharmacopœia came into my hands, and I, feeling the sacred trust committed to my charge, publish portions of it as suggestions to the new Pharmacopœia Committee.

Will that august body include among the new formulæ and metric system "a composition to avoid being taken up before the magistrate," useful in trade-mark and sundry doubtful transactions, or, better, "a composition by which we may all grow rich"?

Apparatus.

Rapid Filtration.

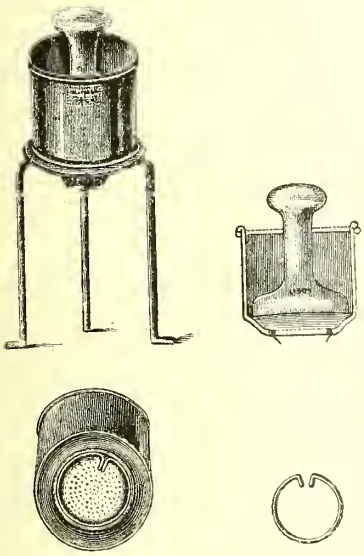
Mr. Sackett, an American pharmacist proposes to facilitate filtration by the method shown in the illustration.



He takes glass stirring rods, about $\frac{3}{16}$ inch in diameter, and from 5 to 8 inches long, one end being bent so as to form a small hook. These being hung inside the funnel form a corrugated filter-support which can be thoroughly cleaned with a minimum of labour.

Straining-Apparatus.

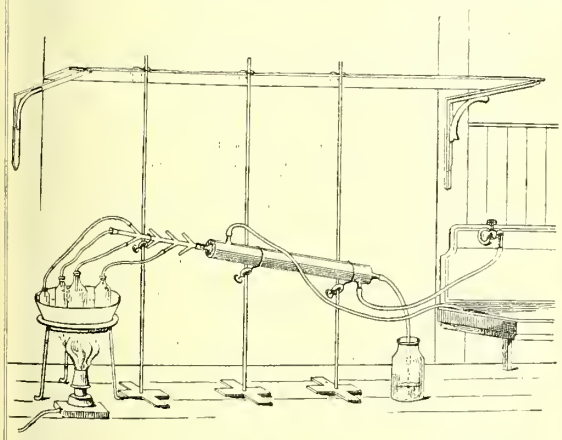
The series of four figures given in this paragraph are produced from the *Pharmaceutische Zeitung*. They represent a German-silver apparatus devised by apotheker Schürholz for straining liquids of mucilaginous character. The apparatus consists of a neckless funnel, into the



bottom of which is inserted a piece of tinned-metal gauze which is kept in position by means of the strong spring-ring, shown in the bottom figures. The passage of the thick solution through this sieve is facilitated by means of a porcelain presser.

For Recovering Spirit.

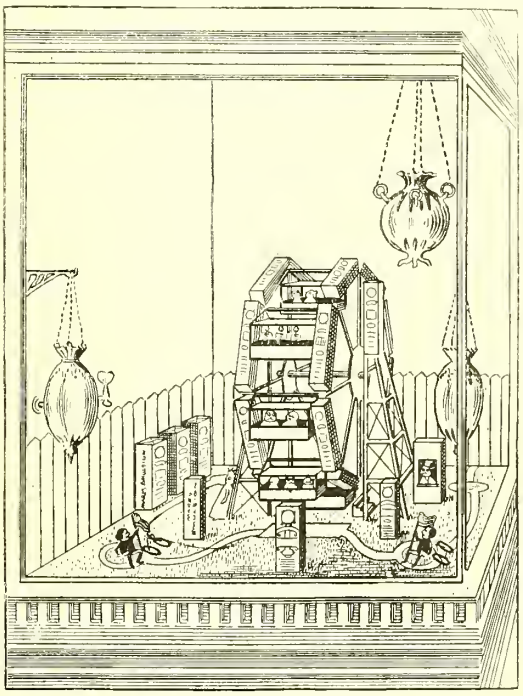
The subjoined is a sketch of a still described by Mr. C. W. Sackett in the *Druggists' Circular*. He says one of the difficulties in manufacturing fluid extracts in small quantities is recovering the spirit. Many times we lose the spirit



rather than bother with the still. To overcome this objection he has devised this "gang" still. The "gang" part is formed by attaching to a Liebig condenser a tube 7 or 8 inches long, from which branch out a number of small tubes, slightly tapering, and made to fit ½-inch rubber tubing. Bottles containing different preparations from which it is desired to recover spirit are labelled by a tag tied to the neck, placed in a water-bath, and connected with branches of the tube leading to the condenser. By proper care in assorting the different lots of extracts, different lots of distillate are obtained, which are useful for different purposes. For instance, the spirit recovered from gentian, dandelion, calumba, &c., Mr. Sackett uses in a sarsaparilla compound which he makes; that from poisonous drugs is employed in horse-liniment, &c.

A Great Wheel Window-Attraction.

"Mares the Druggist" contributes to the *Practical Druggist* a sketch of a wheel which proved very attractive. He says: "I made the base of the window to represent ground by using common sawdust coloured with aniline dye. Be sure to use enough to cover the base well, making a hill here and there. Then take a fresh lot of sawdust and colour a beautiful green; use this to give the ground a pleasing colour, by making a path here and there as shown in the picture. The base also represents a few Brownies and a ticket-office, and is surrounded with a picket fence, forming a solid background. The sketch shows pretty well how the



wheel is put up, but it takes a fairly good mechanic to construct it. I placed it in my window, right fronting the street, as that makes it more effective when kept in motion. It brings the cars into better view to the passer-by, and at the same time it gives you a good position for small signs on front of your cars. On mine I had, 'We never took Mares' emulsion of cod-liver oil with iron'; of course in this car there are skeletons for passengers. The one after it read 'We always take Mares' emulsion,' and they are big, fat Brownies. On every successive car I have a new phrase, with picture to suit, all relating to Mares' emulsion and its good qualities. The only goods represented in the window and on the wheel were Mares' emulsion of cod-liver oil with iron. The wheel was kept in motion by a motor downstairs."

Fractured Ribs.—In case of fractured rib, occurring from any accident, carry a wide roller-bandage evenly round the chest, and send immediately for medical aid.

He knew the Plant.—This is a von Mueller story:—One evening some of von Mueller's students bought a box of small brown pills from a cheap jack, who was vending them as a cure-all. At the class one joker produced the pills, minus the box, and asked the Baron what seeds they were. Von Mueller immediately gave the Latin name of a common order of plant. There was a general laugh, and the youthful humorist said: "Why, Baron, those are liver-pills. I bought them as I came along." "Mein young friendt," said the Baron, "you took me for von fool—you vos wrong. De man vot sold you dees for pills took you for von fool—he vos right. Dot is the difference." The alleged pills really were seeds of the plant von Mueller had named. Our Melbourne Editor, who tells the story, adds that von Mueller did not speak foreign English.

Some Emotions and a Moral.

Being views on pharmaceutical matters written in a minor key by a Minor man in Japan, with whom we do not necessarily agree.

ABOUT 1880 I became a "registered apprentice or student," for which blessed privilege my mother paid, if I remember rightly, 1*l.*, and I underwent an interview with the Society's representative in Bristol. Later on, being at that time in a British dependency in the East, I went, at daylight one morning, to see some English and native gentlemen who, after closely questioning me and watching me do some dispensing, gave me a document by virtue of which I was enabled to pursue the "art and mystery of an apothecary" without infringing the law. Some years afterwards I thought I should like to have the hall-mark put on me, and so wrote to Mr. R. Bremridge and suggested that as I had been examined by Englishmen appointed by the English Government of an English dependency, he should register me as an English chemist and druggist. He, however, declined, and so, about three years later, I went to England and to a school of pharmacy, and a few months later, feeling benevolent, sent 5*l.* 5*s.* to the Pharmaceutical Society with an intimation that I should like to come and see them Promptly I received a receipt for my money and an invitation to 17 Bloomsbury Square. Upon my arrival in London I went on the appointed day at the appointed hour, and was duly admitted, like any ordinary catsmeat-man, at the back door. I cannot say I felt very comfortable or that the gentleman who received me was very friendly, but as I had never seen him before perhaps this was not to be expected. By-and-by I was asked to walk upstairs, and went up and up, and round, and up, until at length I reached a laboratory. I do not remember doing anything rude or outrageous, but I did try to fill my burette from a large bottle without first removing the stopper, and was so overcome with confusion that I promptly put the balance out of gear. My host did not say much, but, if I may be permitted the expression, he indulged in a sort of "songs without words" that did not inspire me with "faith" or "hope," but made me remember that to me failure meant 50*l.* In the afternoon I was invited to spend a couple of hours with Mr. Druce in the dispensary. About the first thing I did was to answer an anxious inquiry from the man next to me as to whether he should spread his plaster on the smooth or rough side of the leather. Then, as Mr. Druce was nice and affable, I made some hypodermic injection of morphine for him, and one or two other things, and he was good enough to say I made them very well. After spending a pleasant afternoon I went home, and, as I had a few days to spare, indulged in a little light reading. One book, I remember, was by a gentleman name Attfield—John Attfield, I think. It is a most amusing and entertaining book, and I can conscientiously recommend it to anyone who has an hour or two of leisure and is anxious and irritable. Another was by a Mr. Bentley, who, I think, must have been a gardener; at any rate, it is all about flowers and turnips and things of that sort.

I think I must, upon the whole, have produced a favourable impression, for in a few days I received another invitation to No. 17. When I arrived I was interviewed by another gentleman, not one of those I had seen before, and he asked me what my name was. I told him truthfully enough, but he did not seem to think it was necessary I should know who he was; at all events, he did not return the compliment. He asked me all sorts of funny little questions; among others, how I made ext. coloc. co. I said I should get colocynth pulp and proof spirit and other delights, and digest the colocynth in the spirit for four days. He said, "Are you sure you would digest it?" I said, "Well, no; upon second thoughts I think it would be more agreeable to the colocynth—and I see no reason why its wishes should not be respected—if it were macerated. Besides, I remember now that the B P. says it should be macerated." He said, "What is the difference between maceration and digestion?" If he had asked me the difference between maceration and indigestion, I could have rambled on for an hour or so, and told him all about shrimp-curry and going to bed immediately after a heavy dinner, and many other interesting things like that; but because I could not satisfy him about digestion he snubbed me, and said I should not use words the meaning of which I did not know, and went further, and closed the interview. A few minutes later Mr. Carteighe intimated that he wished to speak to me. He said, "I am very sorry," &c. Now, my acquaintance with Mr. Carteighe is of the very slightest, and I should not like even to hint that he is a fibber, but I give you my word of honour that is what he said. I used strong words almost without intermission until, some five hours later, I got back to Manchester. I said a few more then, but very soon put my nose to the grindstone, and kept it there for three months Upon giving the matter careful consideration I thought I should like to see whether Edinburgh was really like Athens. I have never seen Athens except in pictures, but no matter. When I went to York Place I was admitted at the front door, and had several interviews similar to those I had had in London. When I left Scotland I invoked blessings (genuine ones this time) upon the head of a kindly old gentleman who, I was told, was Mr. Stephenson.

And now let us see what all this comes to. I have paid the Pharmaceutical Society about 10*l.* in fees, and a great deal more for that education which has enabled me to pass my examinations, and in return I am entitled to call myself a chemist and druggist, to sell scheduled poisons, and I am, metaphorically speaking, branded with the hall-mark. These privileges apply to Great Britain, but not, I believe to Ireland or to Queensland, Australia, and I think I remember reading that the Minor certificate is not accepted by all the States of the Union. In India (except Bengal), Burmah, the Straits Settlements, Treaty Ports of China, and in Japan no certificate is required In England the chemist has no protection whatever, except in the matter of the scheduled poisons, and I think I am quite justified in saying that the profit obtained from the sale of these few lines is not sufficient to pay the errand-boy's wages. On all sides the chemist is beset—by the stores, the doctor whose income is so small that he cannot afford to lose the profit obtained from the dispensing of his prescriptions, the coroner who is down upon him for every trifling mishap, and whose censure goes far to ruin his business, and last, but by no means least, by the rapid introduction of factory-made pills, compressed tablets, and other goods of like nature, the dispensing of which requires no skill—his very existence becomes less and less necessary. Why should the public pay the price the educated and certificated chemist demands as a fair remuneration when the work can be, and often is, done just as well, and often better, by girls and ordinary working-men in factories, and who have not passed, and do not require to pass, the Society's examinations?

Let us take an illustration of the last point. The doctor writes a prescription for, say, 100 protoiodide-of-mercury pills. This must be taken to the chemist, because it is a scheduled poison [Wrong there —Ed *C. & D.*]; and I venture to think that all he will do is to open a bottle of these pills, put them into a pill-bottle, label, and send out. An apprentice, with a week's experience, could do it just as well as an M.P.S. The manufacturer—the man who should have all the experience and education, and examination, &c.—is probably a common working man or girl.

Or, let us suppose the prescription is for 4 oz. Easton's syrup. This, too, must go to the chemist, who, most likely, takes $\frac{1}{2}$ oz. of liquid from a bottle labelled "Liq. Eastoni 1–7 (Snooks & Co.)," puts it into a 4-oz bottle, and fills up with syrup. Can the M.P.S. do this better than the apprentice with a week's experience, or the assistant with ten years' experience but no certificate? I am quite sure he cannot. But some may say that possibly the doctor might write "One tablespoonful ter die," and then the M.P S. would write to him and point out that if his prescription was sent out as written his patient would get about $\frac{1}{8}$ gr. strychnine instead of $\frac{1}{32}$ gr.—and the doctor would carefully advise his future patients not to go to Mr. Blank's And who is employed at Messrs. Snooks & Co.'s to make the liq. Eastoni? I feel sure there are very few qualified men indeed engaged in this work, although perhaps the chief of the laboratory is F I.C., F.C.S., &c., and the fact that these factory-made goods are so largely used is proof that they are well made.

The Moral:—The chemist's day is passed, and no amount of stiffening of the examinations will save him; and the sooner this fact is recognised the better for all concerned.

A French Chemical Guarantee Office.

An organisation called the "Controle Chimique Permanent Français" has just been started in Paris. The director of this Chemical Control Bureau is M. Ferdinand Jean, an analytical chemist of some standing in Paris, and the provincial correspondents include some of the leading French professor-pharmaciens. In the first number of *L'Hygiène Moderne*, the organ of the new venture, which has appeared this month, it is explained that the object in view is the "application of modern chemistry to the development of hygiene and to the public health." The interview given below will explain the object in view; but it may be mentioned that a more practical benefit for manufacturers will be obtained by the Control Bureau advertising in various ways an official list of the products controlled. Profiting by an invitation to make inquiries regarding the new scheme, I called on M Jean. He was in his laboratory, in a quiet alley off the busy Faubourg St Denis, Paris. He is a tall man, of 40 or so, more business-like in manner, I thought, than is usual with a man of scientific attainments. In front of a blazing stove, over a quiet cigarette, he explained as follows:—

"We only broached the idea about six months ago, but we have already some forty firms who have adopted it. It is simple and practical enough. Suppose you are a manufacturer of, let us say, chocolate. You send me three sealed samples of your product, and we make an analysis of its purity. There may be more or less sugar in it, according to your standard; but if we find flour or greasy matter, which is evidently an adulteration, we refuse to have anything to do with you. If, on the contrary, it is chemically pure, we buy, either at your warehouse or at a grocer's, a few other samples, and if we find them up to the standard of the sample already tested we authorise you to put our guarantee upon your packages."

"A sort of label, I suppose?"

M. Jean showed me a neat little ticket in the form of a postage-stamp, printed in red, white, and blue, with a blank space left for a numeral and bearing the inscription "Controle Chimique Permanent Français, Paris. Produit Controle." This, he explained, was only one of their patterns. Larger and smaller labels were made, so as to be suitable for all classes of goods.

"And what do they cost?"

"We make a bargain with each firm, according to size and price of packages, the class of goods, and the number of labels taken. For instance, a threepenny box of blacking can take a far cheaper label than a half-crown bottle of perfume, or a five-shilling bottle of liqueur. We have been working at very low prices to induce manufacturers to make a trial of the advantages offered by our system, but, now its success seems assured, we intend to raise our terms."

"You think it is really to the manufacturers' interest?"

"Undoubtedly. Above all, for exportation. You see that bottle of abricotine; it is a liqueur which sells largely in Russia. Somebody (doubtless a rival) started the rumour that it was not prepared with natural fruit as advertised, but with artificial essences. We examined the distillery and analysed the liqueur, and gave our guarantee that the statement of the advertisement was perfectly correct. I daresay you know that some German papers have twisted the official documents of the Paris Municipal Laboratory into a statement that all French products were adulterated. Doubtless a large proportion of the samples seized by the Paris inspectors were more or less falsified. An intelligent official does not waste his time seizing goods that are certainly (or even probably) pure, but such a sweeping statement was utterly unjustified by the documents in question."

"And how are you sure the manufacturers keep up to the standard of samples first submitted. Do they send you new ones from time to time?"

M. Jean smiled quietly. "Well, of course only respectable firms will ever come to us; still we do not necessarily put ourselves entirely in their hands. We want to keep our guarantee quite above suspicion. Anyone who has bought any goods from any tradesman, so long as the packages are intact and bear our label, can have them analysed by us without any charge whatever."

"Do you think the scheme will succeed?"

"I can only say it has been a great success in Holland. Some of the Dutch colonies, I believe, only allow the importation of 'guaranteed' merchandise. In that country there are about 150 firms who have adopted the system. Here are their names in the 'Journal des Falsifications.' Branch laboratories (he went on to explain) are, or will be, established in all large towns in France. At Bordeaux, for instance, there is M. Carles (the pharmacist who contributes so many interesting papers on matters connected with the vine and its products to the local Society of Pharmacy); at Clermont Ferrand M. Huguet, head pharmacist of the hospital and professor of chemistry at the School of Medicine and Pharmacy; at Marseilles M. Michel, the chemist expert; at Cette M. Slizewicz, pharmacist and chemical expert."

"Your chief business, M. Jean, will evidently be with manufacturers of alimentary and industrial, as distinguished from pharmaceutical, products?"

"Yes; but we have also guaranteed many articles sold by pharmacists, such as phosphates, tonics, liqueurs, eau de Cologne, cold cream, face-powders, disinfectants, phosphated milk, and vermin-killer."

"I presume you did not guarantee the vermin-killer free from poisonous qualities?" I ventured to ask.

"We did, so far as human beings were concerned," replied M. Jean; and he related an anecdote of a lady whose little girl had eaten some of the guaranteed "mort aux rats" on an "eclair" (as the popular chocolate-coated biscuits are called here), and was greatly alarmed, until a pharmacist to whom she went noticed the "guarantee label." He referred her to M. Jean's colleague who lived close by, who assured the lady that the printed statement was absolutely borne out by the analysis, and such proved to be the case.

"Have you never had to refuse your guarantee?"

"Certainly. Mostly for hair-dyes, &c. By the way, I could cite you one sold here, but which, I believe, is manufactured in England; at any rate, it is sold under an English name. The agent here sent it round for analysis, but waited instructions from the head establishment before making an offer as to price, &c. The instructions never came, and we suspect that the firm knew what we discovered by analysis—that the preparation contained undesirable ingredients. There are, probably, plenty of people making articles they honestly believe to be pure, but which would not stand our analytical and microscopical tests; and although, of course, we do not seek quibbles, it is our duty to tell the truth to such manufacturers, and to refuse the guarantee for our own reputation's sake."

The Partition of Gaul.

In Chicago, "that cesspool of American vice and vulgarity," as a politician called it the other day, the ordinary humdrum life of the pharmacist is subject to pleasant interludes of excitement of the "Wild West" variety. The weekly budget of "hold-ups," or burglaries with violence generally includes a fair average of drug-stores. Three burglars entered Adolph Gaul's pharmacy at 10 30 P.M. That was really an afterthought, for their object had been the Plaza Pharmacy over the way But at the Plaza they had found the drug-clerks handling shooting-irons in a casual fashion, "and consequently they left, without making a disturbance." None of your vulgar noise for the Chicago burglar. At Gaul's store the following entertainment took place:—"The burglars shoved two pair of revolvers into the faces of clerks Caron and Chester, while clerk Patinke rushed behind the prescription counter. He was intercepted by the third conspirator, while Caron's captor walked to the cash-drawer and took out $76 in cash. The trio then backed up to the door, telling the three men to stand quiet, on peril of their lives. Patinke grabbed his revolver, and fired several shots after them. The officer, who had by this time appeared, with the usual promptitude called a patrol-waggon"

E—F

The Winter Session.

SOCIETY OF CHEMICAL INDUSTRY.

Manchester Section.

The members of this Section met at the Victoria Hotel on Friday, April 2, Mr. G. E. Davis in the chair. Messrs. Knecht, Levinstein, Liebmann, Ree, and Truby were elected to serve on the local committee. "The Adulteration of Silk," by Sir T. Wardle, and "The Analysis of Silk," by Mr. Carter Bell, were the papers communicated. It seems from these that it is possible to make 100 lbs. of pure raw silk into 1,000 lbs. of the manufactured article by dyeing and weighting. Indeed, Sir T. Wardle said that silk is sometimes so heavily weighted that it is as incombustible as asbestos, although the pure silk burns as easily as gun-cotton.

CHEMISTS' ASSISTANTS' ASSOCIATION.

Last week's meeting at 9 Queen's Square, W.C., was devoted to a consideration of

Antitoxins,

by Mr. F. W. Gamble. It was not precisely a pharmaceutical topic, or treated in a pharmaceutical way. Mr. Gamble brought out one phase of the growth of bacteria very clearly. Bacteria are very particular about the food they eat. It is remarkably true of them that what is one bacterium's meat is another's poison. The bacteriologist tries to find out all about this, for when he has a mixture of bacteria if he can kill off all but the one he wants by growing the mixture in that one's food, he gains his end. Temperature also affects bacteria differently: one kind may increase and multiply at a temperature which kills all others associated with it. Mr. Gamble spoke at considerable length of the characteristics of bacteria, especially those of a pathogenic nature. Different species assimilate substances having varying degrees of complexity, and each produces a specific toxin. Some of these toxins are of the nature of ferments, others resemble proteins; for example, Koch's tuberculin is of the latter nature, but the toxin of diphtheria is a mixture of ferment, albumose, and several poisonous alkaloidal bodies. Mr. Gamble described the preparation of antitoxins by the administration of gradually increasing doses of the toxins to animals until they become immune, when it is found that the serum of their blood has the property of counteracting the effect of the poisonous toxin. In some cases—*e.g.*, tetanus serum—a weakened culture of the bacilli is used instead of the toxins. Again, an antitoxin may be a mixture; thus it has been observed that an attack of erysipelas supervening upon a malignant growth sometimes leads to a disappearance of the latter, and this has given rise to Coley's fluid, a sterilised culture of *Bacillus prodigiosus* and *Bacillus erysipelatis*. This fluid is occasionally used in some forms of cancer by hypodermic injection at the seat of the disease. Mr. Gamble distinguished between artificial immunity and natural immunity, and he spoke of the latter in detail, as well as upon the chemical characteristics of antitoxins, about which, however, our knowledge is as yet vague; and he also spoke in general terms on the uses of various serums.

Messrs. C. Morley (President), G. E. Pearson, Summers and F. A. Rogers joined in the discussion which followed. In the course of his remarks, Mr. Pearson said that anti-streptococcic and anti-syphilitic serums were not actually antitoxins; that in reality there were only two of these—viz., the diphtheritic and tetanic. He also remarked the omission by the author of any reference to the scale preparations, which he said are indispensable for tropical use—fluids for that purpose being practically an impossibility. With regard to syringes, he said that the asbestos-sponge variety was likely to be superseded by a particular form of rubber one, which could be boiled frequently without becoming impaired, and was, moreover, capable of perfect sterilisation. The use of anti-streptococcic serum, he said, had met with considerable success after septicæmia had actually set in. Mr. Summers asked the reason of the comparative immunity to typhoid experienced by sewer-men. Mr. Gamble, in the course of his reply, said that little was known as to the mode of action of these substances; that whereas diphtheritic bacilli were unaffected by anti-diphtheritic serum—the latter, in fact, acting as a culture medium for them—if typhoid bacilli were mixed with anti-typhoid serum, agglutination of the former resulted. Typhoid vaccine, he said, had not met with great success; and as to the immunity of sewer-men from the disease, he ascribed it wholly to tolerance acquired by daily contact with sewage-matters. [On this point see *C. & D.* xlv. page 254, where it is shown that rodents gradually become immune to typhoid when kept in sewer-air, but that the first weeks in such air produces a much heightened degree of fatality.—Ed. *C. & D.*]

MIDLAND CHEMISTS' ASSISTANTS' ASSOCIATION.

At a meeting of the above Association held at the Exchange Rooms, Birmingham, on Wednesday evening, April 7, Mr. F. Casson in the chair, Mr. John Barclay, B.Sc. (Lond.), F.C.S., read a note on

Coca-wine of Commerce.

He said that two classes of coca-wine are met with in commerce—the one agreeable in taste, and to be regarded as a beverage; the other a medicinal preparation containing sufficient of the active principles of the coca-leaf to render it valuable as a medicine and impossible as a beverage. The first kind of coca-wine can be sold only by those holding wine-licences; while the latter, provided it satisfies certain requirements of the Board of Inland Revenue, is "non-excisable," and may be sold without restrictions. The following is a quotation taken from a letter received by Mr. Barclay from the Assistant-Secretary of the Board of Inland Revenue in reply to an inquiry as to the official requirements regarding "non-excisable" coca-wine:—

> The Board of Inland Revenue . . . do not regard coca-wine as non-excisable unless it contains at least ½ gr. of cocaine to the fluid ounce, and also a sufficient quantity of the extractive matter from the coca-leaves to render it unfit for use as a beverage.

It is to be regretted that the quantity of extractive matter required is not specified more exactly; but it is evident that a preparation made by dissolving ½ gr. of cocaine in 1 oz. of wine is not admissible, while at the same time it need not be regarded as essential that the whole of the cocaine present is to be obtained by using leaves without subsequent fortification with alkaloid. It is further to be noted that the authorities make no mention of the other alkaloids present in coca-leaves, and we may therefore, perhaps, fairly assume that some such expression as "total alkaloids peculiar to coca" would more correctly define the official intentions. Mr. Barclay proceeded to give the results of an examination of commercial samples of coca-wines, three samples of "excisable" and six of "non-excisable. The method of assay is: mix 75 c.c. of the wine with 25 c.c. of lead subacetate solution, filter, take an aliquot portion of the filtrate, precipitate excess of lead with sodium phosphate, again filter and wash out the alkaloids from the solution (made alkaline with ammonia) with ether. Before evaporation, the ethereal solution is dehydrated with calcium chloride, and the heat employed should not exceed 75° C. This process was checked and found to be reliable with a mixture of sherry and gum acacia. The following are the results of the examination of commercial coca-wines:—

Number of Sample.	Description	Specific gravity at 15·5C.	Absolute alcohol by weight per cent.	Total Extractive dried at 100 C. (per cent.)	Total Alkaloids per fl. oz. in grain
1	Excisable	1·032	16·70	12·82	0·10
2	Excisable	1·042	14·84	15·50	0·075
3	Excisable	1·014	17·17	8·81	0·066
4	Non-excisable	1·001	17·17	5·03	0·33
5	Non-excisable	1·0025	23·58	7·28	0·44
6	Non-excisable	1·027	16·70	11·88	0·41
7	Non-excisable	1·0095	17·17	9·77	0·60
8	"With Quinine"	1·014	15·77	8·26	0·73
9	"With Quinine"	1·080	10·65	24·62	0·607

Samples Nos. 8 and 9 possibly fulfil the spirit, but probably not the letter, of the law. As regards a formula for pre-

ring "non-excisable" coca-wine, it is first to be noted that ough official in Belgian, Swiss, and Spanish Pharmaopœias, none of the formulæ given in these is adapted for oducing a wine containing the necessary proportion of kaloid. To prepare a "non-excisable" wine from leaves ly (without addition of cocaine) it would be necessary use about 3 oz. of leaf to 1 pint of wine, so that an necessarily unpleasant preparation would result. It ould therefore seem better to obtain part of the alkaloid cessary from leaves, and the remainder by the addition of caine. It also seems highly desirable that a preparation potent and so widely used as coca-wine should be included the new Pharmacopœia.

CAMBRIDGE PHARMACEUTICAL ASSOCIATION.

MEETING was held on Friday, April 9, at the Cavendish aboratory, when Mr. W. H. HAYLES gave a lecture upon e

"RÖNTGEN RAYS."

Mr. Alderman Deck, F.C.S., occupied the chair, and there as a large attendance of about sixty members and friends, cluding ladies. Mr. Hayles commenced by showing a ries of electric discharges at ordinary atmospheric pres re and photographs of each of the terminals, the effect of lucing the pressure on the discharge, phosphorescence duc the cathode rays, and the effect of magnets upon them. e explained the Lenard and Röntgen rays, and showed eir fluorescent effects upon a screen of potassium platinoanide. He then interposed various objects, such as plates aluminium books, wood, copper, &c., showing which are aque and which transparent. He next exposed a photoaphic-plate, upon which the President's daughter's hand as placed, to the action of the *x*-rays, the plate was deloped, and the results thrown on the screen at the end of e lecture. Various radiographs of different limbs were hibited, by means of the electric lantern, showing malrmations and foreign bodies. The meeting closed with a te of thanks to Mr. Hayles.

Trade Notes.

THE Farbwerke vorm. Meister, Lucius & Brüning, of St. Mary Axe, E.C., have received from their factory at ochst o/M a small consignment of Koch's new tuberculin bottles of 1 c.c.

TENDERS for Tuson's carbolic disinfectants have been cepted this year by the India Office, the Metropolitan ylums Board, the corporations of Norwich, Portsmouth, ornsey, Leyton, &c.

"HIGHLAND-HEATHER" perfume, which Messrs. Moise Marshall are now pushing so energetically, is henceforth appeal to the ear as well as to the delicate sense of smell, r the firm are offering with certain quantities of it the usic of songs by Scotia's immortal bard. There are full rticulars about the matter elsewhere in this issue, we derstand.

MESSRS. S. MAW, SON & THOMPSON'S quarterly priceurrent is so indispensable a publication to the trade that it quires few eulogistic words from us. The April issue is w before us, and it is quite up to the usual standard of cellence of anything emanating from this house. As retofore, the surgical-instrument section is a prominent rt of the catalogue, being followed by a comprehensive t of druggists' sundries, proprietary articles, shoptings, &c.

A GOOD OFFER.—Messrs. Lorimer & Co., Britannia Row, lington, inform us that they have devised a prize scheme hich we believe is likely to attract considerable attention. ey are offering a prize of 20*l.* for a formula of and particurs regarding an attractive chemist's counter-speciality. The nefit to the lucky man will not end there, because the firm ll put the accepted speciality on the market, and they will ve 10 per cent. of the net profits upon it to the prizeinner. This, we think, is a good opportunity, especially to ose who are so situated that they cannot themselves derive any immediate benefit from ideas which they are unable to carry out in practice.

MESSRS. PARKE, DAVIS & CO., 24 North Audley Street, W., have just published a price and dose list of their fluid-extracts, which dispensing chemists will find very useful for reference, as it has been compiled with much care. Each line on the pages contains the name of the drug, the botanical origin, the vernacular name, minimum and maximum doses for adults, and the prices of 16, 8, and 4-oz. bottles of the fluid-extracts. The list of all kinds of fluid-extracts extends to twenty pages. Additional pages are devoted to "normal liquids"—*i.e.*, fluid-extracts, the active principles of which have been determined, so that they can be standardised; following this are a table of formulæ for making B.P. tinctures from fluid-extracts, some useful notes on the rarer drugs, &c., and references to full information regarding them. The list has apparently been prepared by a pharmacist of intelligence, as everything, even the Latinity, shows culture and taste.

NEWBERY'S CATALOGUE.—We have seen a proof of Messrs. Francis Newbery & Son's net price-list for 1897, which has been brought up to date. It is not easy to get a new feature into a patent, proprietary, and toilet articles and druggist sundries' catalogue, but on this occasion the firm have added the significant letters "f.r." to those articles which have a fixed minimum retail price. The entries appear as follows:—"Coca-bynin, f.r., 2*s.* 2*d.*, 2*s.* 6*d.*"; "Powell's balsam of aniseed, f.r. (P. 2), 1*s.* 1½*d.*" (indicating a reduction or no reduction on the face-value). The "P 2," it will be remembered, means that the article contains poison within the meaning of Part 2 of the Poisons Schedule. The addition ought to be very useful to retailers and wholesalers alike, and we only regret that while they were at it Messrs. Newbery did not collect the whole of the articles together in one list (they are so few compared to the bulk) in the same manner that they have collected together in the volume the various wines, &c., which may or may not be sold without a wine-licence.

Marriages.

ALLISON—COMSTOCK.—Mr. William O. Allison, manager of the *Druggists' Circular*, was married at Detroit, Mich., on March 8, to Mrs. Caroline A. Comstock.

RIDLEY—GRIFFITHS.—On April 7, at the Wesleyan Church, Museum Street, Ipswich, by the Rev. Mark Guy Pearse, Albert Paul, second son of the late Albert Cowell Ridley, and member of the firm of Grimwade, Ridley & Co., to Stella Margaret, only daughter of William Thompson Griffiths, all of Ipswich.

SPENCER—WINTER.—On April 13, at the Congregational Church, Stratford-on-Avon, by the Rev. F. J. Fry, Frederic Downing Spencer, A.P.S., of Coleshill, to Elsie, seventh daughter of Mr. F. Winter, J.P., of Stratford-on-Avon.

Deaths.

ALLIS.—On March 18, Mr. Francis Allis, pharmaceutical chemist, Bristol. Aged 77.

DALZIEL.—Mr. Hugh Dalziel, a Scotchman, died at Herne Bay on April 8, and was buried there on Monday, April 12. His wife predeceased him four days. Mr. Dalziel had for some thirty years acted as consulting chemist to Spratt's Patent (Limited), although for some little time failing health prevented his giving personal attention to his duties. He was the author of a large number of text-books on canine matters, notably his book "British Dogs," and his monographs on the collie, fox terrier, and other breeds. Although not often seen recently at shows, his was a well-known face in the 'seventies and early 'eighties as a judge or a reporter at all important canine exhibitions. He was also the author of text-books on the diseases of both the dog and horse, and was a good all-round practical authority on dogs. Mr. Dalziel was born at New Cumnock. He was 61 years of age last May.

Practical Notes and Formulæ.

Cocaine Ointment.

The objection has sometimes been made to the preparation of cocaine hydrochlorate ointment with vaseline that the alkaloid crystallises out. This does not happen, according to Lamanna, if the salt is dissolved in the smallest possible quantity of water, the solution mixed with lanolin, then with the vaseline.

White Boot-top Powder.

Oxalic acid	℥ss.
Levigated pumice	℥ss.
Sugar of lead	℥ss.
Putty powder	℥j.

The ingredients to be finely powdered, and mixed thoroughly.

The above quantities to fill a wine-bottle. It is excellent.

Aqua Lavand. Opt.

Ol. lavand. ang. opt.	ʒij.
Ol. bergamot. super.	ʒvj.
Ol. amygd. amar.	♏v.
Ol. santal flav. ang.	♏ss.
Otto rosæ	♏ss.
Ess. moschi	ʒvj.
Ess. ambergris.	ʒvj.
Ess. rosæ super. opt.	ʒiv.
Sp. vin. rect. (58 per cent.)	Oiiiss.

Macerate four weeks.

Persian Dentifrice.

Pulv. cretæ præcip.	℥iiss.
Pulv. rad. iridis.	℥viij.
Pulv. oss. sepiæ	℥viij.
Carmin. opt.	ʒj.
Otto rosæ	ʒj.
Ol. neroli	♏v.
Ol. caryoph.	♏v.
Ol. ros. geranii	♏v.
Ol. lavand. ang.	♏x.
Magnes. carb. pond.	℥iv.

M. Ft. dentifrice.

To be passed through a fine drum-sieve several times.

Rose-water.

Mr. Sidney Rauschenberg, of the New York Hospital, makes a good observation regarding the preparation of rose-water from the otto, which, every pharmacist ought to know, is not like the real thing. The observation is that a little cloves improves it. He has tried it for two years, and arrives at the following best proportions:—

Otto of rose	100 minims
Oil of cloves	10 minims
Rectified spirit to	2 oz.

Dissolve.

Add 2 fl. dr. of this to 25 oz. of boiling water, and set aside as long as possible to mature. If wanted at once, shake up with a drachm or two of kaolin, and filter. We have altered Mr. Rauschenberg's figures slightly to fit them into workable English quantities.—*Amer. Drug.*

A Cure for Rot in Sheep.

Pulv. potas. nit.	ʒvj.
Pulv. zingib. jam.	ʒiv.
Ferri carbon.	ʒij.
Sodæ muriat.	℥iiss.
Aquæ bullient.	Cong. iij.

Pour the hot water upon the ingredients, stir them well, and when new-milk warm add to every quart of the mixture ʒiij. spirit turpentine, and bottle the mixture for use.

Dose: Four tablespoonfuls.

Note.—It is predicted that "rot in sheep" will be very prevalent this spring. The above preparation, if tried, would probably be found efficacious. The recipe is a very old one. "I have no doubt," writes a correspondent, "it is a remedy that may be relied upon."

A New Capsule-basis.

Dr. Weyland suggests (*Therapist*, page 104) formalin gelatine as a basis for capsules or suppositories which should only be dissolved in the smaller intestines. There is a physiological difficulty in using the basis for suppositories; but there should be a decided advantage in having it for capsules or pills (in place of keratin). Dr. Weyland's experiments prove that while the gelatine does not dissolve in peptic fluids, it easily does in pancreatic fluids. So far this is only a suggestion, and pharmacists must work out the details for themselves.

Household Ammonia.

The *Western Druggist* prints an interesting note regarding this article. It appears that in 1878 a U.S. Patent was granted to Mr. C. C. Parsons of Brooklyn for "household ammonia." The invention consisted of ammonium oleate dissolved in an excess of ammonia. Mr. Parsons copyrighted the name and objects to anyone else using it. The patent has expired, and the copyright claim probably died with it, despite the efforts of its former owner to make people believe it is still alive. The compound should contain not more than 6 per cent. of oleic acid and is stated in the patent to be made by adding to 100 lb. of aqua ammonia, 18 deg. B., 1 lb. of oleic or any other fatty acid. The ammonia may be stronger, but if more than 6 per cent. of oleic acid be employed, the mixture becomes greasy, while as little even as 1 per cent. will greatly improve ammonia water for toilet and laundry purposes. The advantages claimed were that the volatility of the ammonia is decreased and its causticity much diminished. [As far as we are aware the introduction of cloudy household ammonia in England was an entirely independent observation made by Mr. Scrubb, between whose preparation and Parsons's there is little in common, and we may add that the term "Cloudy" was not used by Parsons nor in the United States until it became popular in England. —Ed. *C. & D.*]

We Two.

I.

(Harassed Chemist, *loquitur.*)

Who is it knows enough for two
(As boys of sixteen often do),
But yet can't tell squills from tolu?
My apprentice!

Who comes down twenty minutes late,
"Forgot to wind his watch," he'll state
(At such excuses he is great)?
My apprentice!

Who grumbles (*sotto voce*), just
Because he has each day to dust
The bottles, with "Well, 'spose I must"?
My apprentice!

Who went last week to Drury Lane,
And maddens my long-suffering brain
By singing all the songs to Jane?
My apprentice!

Who labels jalap "Best hair-oil,"
Contrives a batch of pills to spoil,
And thereby makes my hot blood boil?
My apprentice!

Who always spells cocaine with k?
Who smashes bottles every day?
Who's turning, fast, my hair to grey?
My apprentice!

Audi alteram partem.

II.

(Injured Apprentice, *loquitur.*)

Who is it calls me "stupid lump!"
And nearly drives me off my chump?
Who is it gives a chap the hump?
My guv'nor!

Who is it hates my every joke?
Who thinks me much too young to smoke,
And swears it nearly makes him choke?
My guv'nor!

Who wants me in each night by ten,
And me to bed sends there and then?
(Why ean't I do like other men?)
My guv'nor!

Who designates my spelling "weak"?
Who is it says I mustn't speak
To Jane, the housemaid? Like his cheek!
My guv'nor!

Who is it, if I sing a note,
Suggests, sarcastic, that my "throat
Requires some pot. chlor."? Silly goat!
My guv'nor!

But now we sha'n't be long! Oh, my!
The time is drawing near when I
Shall, for the last time, say "good-bye,
Old guv'nor"!

Travellers' Tales.

I.

Oh! travellers tell us of non-freezing oils,
But surely they truly are teasing!
It's only in summer, when mercury boils,
They tell us they'll sell oils non-freezing—
Just order when Winter is holding his sway,
They look, and their looks are not pleasing,
They know they don't have 'em, and fore'd to say 'Nay,'
While their smiles, like their oils, are hard freezing.

II.

And travellers tell us that 20 per cent.
Is the discount. A mis-count I tell 'em.
They keep it in lengths, like a winter stove-vent,
And so the poor buyers they sell 'em.
First $2\frac{1}{2}$ and then 5, and then 5,
And $7\frac{1}{2}$, ta'en off as they come.
When counted in figures at 20 arrive,
But $18\frac{3}{5}$ is the true sum.

Verb. Sap. (75/52.)

At the Counter.

"Please give me a powder for Mrs. ——'s baby: she is cutting two decayed teeth." The precocious baby was a Streatham one.

"1d. of Gallop;" "tin of Moore & Burgess's Food;" "2s. bottle of Pharisee's Food;" "bottle of Fishy Water." (From Minehead.)

From a Jersey Counter.—"Penn'orth Isabella licking"; "Penn'orth ink ointment." Yellow basilicon and zinc ointment supplied, to mutual satisfaction.

"Gum Harrbuck" looks like old English; and "two pennyworth I.O.D. forme" looks scientific. These orders are sent by Mr. Cox, Swanley Junction.

"A three-and-sixpenny bottle of 'Vinck's Varnish'" was asked for in a chemist's shop in Hastings the other day. "Wincarnis" was what was wanted.

Wee lad: "Please, I want a teethin' poother." Chemist: "What age is it?" Wee lad: "I dinna ken; it's for the cat." The chemist tottered over and supplied Keating's.

"Pacific Ointment"; "Yankee billiock's pills"; "a penn'orth of that 'ere 'intment what you rubs on your head to kill liee"; "Lever pills." (F. H. Glew, 156 Clapham Road, S.W.)

"Gilirsing and Padgrock" is a Yorkshire recipe for a cold; "Aneker fautis" and "Equeptalus for enhailing" are also among orders contributed by Mr. H. H. Taylor, Middlesborough.

In some orders from the Midlands sent by G. W. S, we find "hol e spec" and "hol e tipe" for oils of spike and thyme, "Oilqubous" for oil of cubebs, "Epefornis Serline" for effervescing saline, and "Baby Tittie Hair Tight."

Order on Paper.—"Please give 1d. packet Full as earth." "Please, sir, I want a stocking for very coarse vanes." Another customer:—"Please can you give me a bottle to do me good?" "Yes! What is the matter?" "I have a nasty taste at the back of my neck, and have been spitting up wind all day." (W. A. F. Collenette, Guernsey.)

The following are sent by Mr. Walker Pickering, Bishop Auckland:—"Tinker of mer," "henpen seeds" (henbane), "penn'orth of olive groves for toothache," "boric and onions," "hanna seeds," "broom hide of potass, for fits," "cross supplement," "surment for claging chaina."

The next parcel comes from Mr. Cornish, South Tottenham. One of his customers writes for "2d. of Syrup of Sinner and 1d. of Magnisher"; another orders "a pennyworth of Borwicks and honey"; "Camalion flowers," "Anti Perein," and "Armenated Christels of Potash" are also called for, while the beauties of the neighbourhood send for "3d. of Peroxide of Mardrijin for the Hair," and for "3d. of Goldon Hire Wash."

The following was asked for and sold after a lot of arguing:—"1d. worth Turpentine, 1d. worth nitric acid to be mixed in one bottle." This was done with fear and trembling. Then 1d. worth vitriol was asked for, and on inquiry it was found that this was to be mixed slowly with the former. Did you ever hear the like? asks a Montrose subscriber.

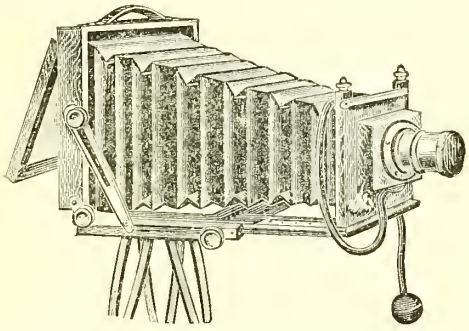
Photographic Notes.

BY A PHARMACEUTICAL CAMERIST.

Messrs. Barclay & Sons (Limited), 95 Farringdon Street, E.C., tell me that

The Photographic Season

has begun well with them, and they have several novelties which are worth the attention of all pharmaceutical camerists. One of these is a four-guinea half-plate camera, fitted with Thornton-Pickard shutter, and a rapid rectilinear lens which is achromatic—an important point, because the rage for cheapness has brought into the market quite a number of lenses which look first-class but are not achromatic. The camera-body is good, the bellows being double extension with rack-and-pinion movement and swing back. It is fitted with one double dark slide and a tripod goes along with it—all to retail at 4*l.* 4*s.*, a remarkably cheap line, I consider, and one



which should attract beginners who sooner or later do not feel that they exist, photographically speaking, until they have a Thornton-Pickard shutter. Messrs. Barclay are also stocking this season a bamboo tripod, which takes down to go into one's handbag or "Salisbury." It is a very strong article, brass bound, and exceptionally rigid when erected. I may mention that the firm print an illustrated catalogue of seventy-four pages, with retail prices, for distribution amongst one's customers; a discount code for one's own use is supplied with it showing that the profits go up to 33⅓ per cent.

A One-man Exhibition.

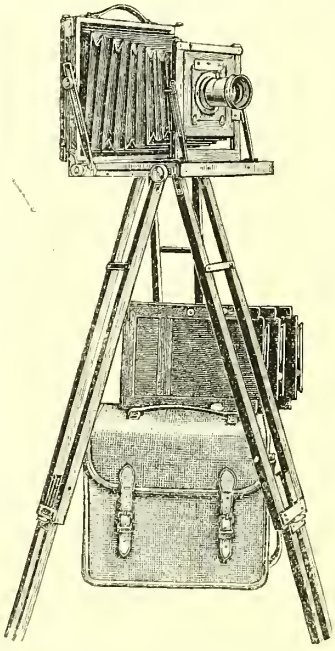
There is an exhibition of special interest to pharmacists open in London just now—viz., at the rooms of the *Photogram*, 6 Farringdon Avenue, E.C. It consists of pictures of foreign travel taken by Mr. Sydney Keith in a tour which he made of the world during the past three years. Mr. Keith is a Scotch pharmacist who, after spending several years with Messrs. Duncan, Flockhart & Co., Edinburgh, entered the firm of Dandie, Newby & Dandie, Perth, and on the death of the late Mr. Alexander Napier, Edinburgh, purchased his business, carrying it on for several years until his retirement four or five years ago. Being a man of means, Mr. Sydney Keith has spent his time recently in seeing the world, and he has brought back with him some vivid impressions in the shape of photographs. There are fully two hundred of them on the walls of the *Photogram* room, mostly half-plates. They begin with the Swiss Alps, of which there are some good pictures, particularly one of the Matterhorn with a magnificent cloud effect, and another, consisting of nine half-plates, of the whole range from the "Corner Grat." The lake pictures are good. I admired the Lake of Brienz especially, although Mr. Keith is at his best whenever he puts his lens waterwards, and this peculiarity comes out strongly in his Nile pictures. There are photographs of Egyptian mural inscriptions, and some others which the ordinary globe-trotter generally neglects to take. I was a little disappointed with the pictures of Japan: a few are above the average, but the bulk of them, as far as I could judge (as many of them are badly placed), exhibit no freshness. They are concerned with a trip round Fusiyama. On the other hand, the pictures of North American scenes are of unusual interest—those of Alaska from the ethnographic and topographic points of view, while the Californian and Wyoming pictures are as good photographs of some of the most characteristic bits of American scenery as I have seen come out of an amateur's camera. I understand that Mr. Keith is getting up a series of popular lectures for next season, and they will be illustrated with lantern-slides from the original negatives. In my last notes

The "Sandell" Exhibition

was referred to. I have since been there at the opening on Tuesday. The pictures, all taken on Sandell double or triple plates, show in a practical form, which can be appreciated by the merest tyro, the great advantages of multiple-coated plates—perfect rendering of all gradations of light, and total absence of halation. From a technical point of view some of the most striking pictures are:—No. 15, "The Interior of St. Mark's, Venice" (five hours' exposure with the sun shining through the windows of the dome); No. 231, "Screen in the Apothecaries' Hall"; No. 290, "Staircase, Mercers' Company"; No. 346. "Court-room Fireplace, Goldsmiths' Hall"; No. 196, "Smoke-room, s.s. *Ormuz*"; Nos. 72 and 73, "Nave and Choir of Wells Cathedral." In these, strong contrasts of light and shade can be appreciated, whilst the delicate gradations of white marble are admirably rendered in the pictures of "St. George's Chapel, Windsor"; No. 100, "The Four Tablets of Gloucester Memorial"; No. 93, "Princess Charlotte's Cenotaph" (very difficult subject, exposed for two days, with yellow screen), and No. 95, "Emperor Frederick's Statue." "The Marbles of the Loggia, Goldsmiths' Hall," No. 331, are also beautifully photographed. No. 216, Bolton Abbey, "On the River Aire," is an excellent photograph, dark foreground and distance, both being reproduced with all detail. Some hand-camera work by Mr. Julius A. Kay, of Southport; cloud-effects by Mr. W. H. Rogers, and village types by Mr. G. W. Watson should also be mentioned; whilst the great latitude of exposure possible with the Sandell plates is emphasised by No. 258, "Two Views of the West Window in the Banqueting-hall, Gray's Inn"—one exposed for one minute, the other for fourteen hours, without any appreciable difference.

The "Hanover" Camera.

I am now able to give an illustration of this camera, which Messrs. Evans, Sons & Co., Liverpool, are making a feature this season. The camera is light, and exceptionally portable, as when closed the focussing-screen fits into the base-board—the total thickness being 2 inches. The front slides along brass runners, and can be fixed at any point. The rising swing-front is of unusual range, while the back can be moved close up to the front for wide-angle lenses. It is, of course, a swing and reversing back. Three double dark slides go with the camera; they are of special form, and the shutters have automatic catches. The lens is an R.R., with "Iris" diaphragm, working at *f*8, and gives excellent definition with all kinds of subjects. The whole set consists of camera, three double dark slides, "Iris" R.R. lens, three-fold tripod, and waterproof case, and the half-plate size retails at 6*l.* 15*s.*



Paper Negatives.

I observe that an improvement in paper negatives has been made in Germany by Mr. O. Moh, of Goerlitz. Such

negatives strongly appeal to the touring and bicycling camerist, and they would no doubt be used much more largely were it not for the objectionable grain of the paper, the long time required in printing from them, and the difficulty one has in keeping them quite flat in the slide. Moh's improvement consists chiefly in rendering the paper-support perfectly transparent, by rubbing it, after the final washing of the negative, with a piece of cotton-wool saturated with a special solution. The nature of this solution seems to be "wropt in mistry," but it is said that its refractive property is made to agree in such manner with that of the paper that the latter apparently loses all traces of its texture when the pores are entirely filled with the solution. The sensitised sheets are kept flat by placing them, film upwards, on a carrier made of a thin, but stiff, piece of cardboard, cut accurately to size, and to which a small frame of vulcanised rubber is hinged by means of a strip of linen. These carriers are made to fit the slide. Paper negatives can of course be used to print from either side.

Westminster Wisdom.

The Easter Recess.

The House of Commons on Monday last adjourned till Monday, April 26. The Lords commenced their holiday about a week earlier than the Commons, and, imitating the philosophic method of Charles Lamb, they will make up for it by returning a week later.

The Petroleum Committee.

It is expected that the Petroleum Committee will conclude the taking of evidence by Whitsuntide, in which case it is sure to present its report during the present session. Twelve more witnesses are to be called, and they will be examined chiefly as to the storage and carriage of oil and the power of the local authorities to make regulations.

Fertilisers and Feeding-stuffs.

The President of the Board of Agriculture has received a memorial from the Royal Northern Agricultural Society suggesting various amendments to the Fertilisers and Feeding-stuffs Bill, and has promised to give careful consideration to the suggestions which it contains.

The Verminous Persons Bill.

Mr. Hazell, on Friday last, had the good luck to get this bill read a second time. It is intended to give local authorities power to make provision for cleansing and disinfecting persons infested with vermin. According to Mr. Hazell, there are nightly about 60,000 persons in common lodging-houses and refuges in London alone who, from the nature of their environment, are in danger of being infested with vermin.

Merchandise Marks.

Some six or more witnesses were examined before the Merchandise Marks Committee on Monday, some of them appearing at the request of the London Chamber of Commerce. Their opinions were somewhat divided as to the value of the existing Act as a means of protecting the interests of manufacturers and traders concerned in the home trade, but they were almost unanimous in saying that the Act had done harm in respect to the trade in goods bought here from abroad for re-exportation. Mr. J. G. Rogers, chairman of Travers & Sons, wholesale grocers, for instance, said that when the retailers at the tropics and the British colonies got to know that the goods they received were "made in Germany," they went direct to Germany for their supplies. Apparently Mr. Rogers endorsed the view of a previous witness, that the Act should not have any effect on goods passing through this country for re-exportation. On the other hand, Mr. David Howard, chemical manufacturer, Stratford, objected to putting an end to the examination of goods in transit, for he thought that if that were done it would be possible to send goods fradulently marked to London and to send them out again with a London bill-of-lading, giving every indication of London as their place of origin. In his opinion it would be sufficient to mark foreign goods "made abroad." He added that his own trade is entirely covered by the Food and Drugs Act.

Science Jottings.

THOSE who like a good bit of caustic writing cannot do better than read the articles by Professor H. E. Armstrong, F.R.S., in *Nature* of March 4 and subsequent numbers, on "The Need of Organising Scientific Opinion." The starting-point is Mr. E. E. Williams's "Made in Germany," which the professor thinks rather good. We cannot spare the space to deal with the articles as they deserve, but those interested in the future of our chemical industries—indeed, in industrial Britain—should not miss them. One point that the professor makes we cannot resist quoting. He quotes Carlyle's view, as follows:—

> The state of education in Germany, and the structure of the establishment for conducting it, seems to us one of the most promising inquiries that could be entered upon.

Anyone who cares to turn up the first volume of Carlyle's "Miscellanies," page 79, will find the sentence there. Carlyle wrote it at Craigenputtock in 1828. Professor Armstrong has quoted other bits of Carlyle's wisdom in his articles, but none seems to us so effective as the above.

* * * *

Dr. M. W. Nencki, who has recently celebrated the twenty-fifth anniversary of his appointment as professor of pathological chemistry in the University of St. Petersburg, has made an important communication to the German Chemical Society, in which he completes the chain of evidence regarding the close relationship of chlorophyll and the red-blood corpuscles. He and Sieber found that hæmatoporphyrin ($C_{16}H_{18}N_2O_3$) is the oxygen-carrying substance of the blood, and Schunck and Marchlewski have isolated from chlorophyll a substance, $C_{16}H_{18}N_2O$, which they call phylloporphyrin. This is the green-colouring matter which aids plants in the assimilation of carbon dioxide. In the lowest stages of organic life this substance is found in animals; but there also exist in the organic world numerous instances where CO_2 is reduced and changed to organic material, which subsequently again is oxidised to CO_2 without the aid of chlorophyll or hæmoglobin. The most interesting conclusion which Dr. Nencki has arrived at, however, is that among leaf plants, and in animals with red blood, the colouring-matters, chlorophyll and hæmoglobin, are built up from the same mother-substance. He gives the data for this statement in the paper, of which an excellent translation appears in the *Journal of Pharmacology*.

* * * *

Dr. Nencki's hypothesis, should it stand the test of time, will give that connecting-link between the vegetable and animal kingdoms which evolutionists have so much desired.

* * * *

Another interesting matter has lately been brought before the above society by Dr. E. Buchner, and the result may have as far-reaching practical utility as the foregoing will be of theoretical value. It has long been a matter of dispute amongst biologists whether the splitting up of the sugar molecule by the yeast-cell is or is not a purely hydrolytic process, such as is produced by enzymes. In short, does the yeast-cell secrete an enzyme? Dr. Buchner says it does, and by pounding pure yeast with sand, and submitting the mixture to a pressure of about 500 atmospheres, he has succeeded in obtaining from it a liquid which, after careful filtration and the exclusion of all organisms, was found to excite alcoholic fermentation. Dr. Buchner calls the ferment zymase, and he suggests that the yeast-cells secrete it into the saccharine solution in which they are put. It is possible that in the near future zymase will be obtainable just as pepsin is now, and by the addition of a little of it to the innocent *Eau Sucrée* one will get a glass of grog while he waits.

* * * *

From a mine recently discovered in Ryfylke, Norway, various minerals containing rare earths have been obtained. Cleveite is amongst them, and it is now offered at 2*l.* per kilo., or, say, 1*s.* 4*d.* an ounce. It yields 1·5 to 2 c.c. of helium per gramme; therefore, an ounce bottleful of helium is worth at least 8*d.*, and this does not reckon the cost of isolating it.

GOLD MEDALS 1884-1885-1886-1888.

"SANITAS" TRADE MARK.

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THE NATAL PHARMACY ACT.

A NEW Medical and Pharmacy Act was passed last year in the colony of Natal, and we have lately received a copy of it, together with the regulations of the Natal Pharmacy Board created under the Act. The Act was promoted,

we believe, by the leading pharmacists in the colony, with the object of bringing up the standard of qualification of chemists and druggists to the same level as that of the neighbouring Cape Colony, and corresponding more or less closely with the conditions prevalent in the Transvaal and the Orange Free State. It is, no doubt, desirable from many points of view that qualification in any one of the South African communities should be valid in all, and although just at present there are circumstances hindering the attainment of this result, it is sure to come in time, and Natal pharmacists have acted wisely in ensuring that their qualification shall be at least equal to that of their neighbours.

The Natal Pharmaceutical examination, provided by the Pharmacy Board, stipulates first that candidates shall produce evidence of having served a four-years' apprenticeship with a duly-licensed chemist and druggist, either in the colony or elsewhere, or they must satisfy the Board that they have been practically engaged in the compounding and dispensing of medicines on medical prescription for not less than four years under duly-licensed chemists and druggists. The candidate must be twenty-one years of age before his examination, and must pay a fee of three guineas. After January 1, 1900, he will be required to have passed a Preliminary examination equal to that of the Pharmaceutical Society of Great Britain. The qualifying examination is on the lines of that of this country, and deals with prescriptions, practical dispensing, pharmacy, materia medica, botany, and chemistry. The Board have power to accept the certificates of other societies, and at present have intimated that the certificates of the Pharmaceutical Societies of Great Britain and of Ireland will entitle the holders to be registered in the colony on payment of a fee of one guinea.

The Act is in some of its features noteworthy. It strictly protects not only the name and title, but also "the functions" of physicians, surgeons, &c., and similarly those of apothecaries or chemists and druggists; and in respect to the latter, it renders an unlicensed person "who shall practise as a chemist and druggist, or prepare or compound drugs and medicines, whether from medical prescriptions or otherwise, except for private or domestic use," liable to a fine not exceeding 100*l.*, or imprisonment with or without hard labour for a period not to exceed six months. This might be held applicable to unqualified assistants, especially as the section goes on to say that no person charged with a contravention of this section shall be acquitted by reason of the fact that he is in the employ of, or is agent for, a person duly licensed to practise, unless he is under the personal supervision and control of some duly-licensed chemist and druggist. From subsequent sections, however, it appears that the "indentured apprentice" and "*bonâ-fide* assistant" of a chemist and druggist may "sell" poisons, drugs, or medicines, and no stipulation is made that he shall be under the supervision of a qualified person. Possibly the agency referred to in the first quoted section was intended to affect branch shops particularly.

Medical men may compound their own medicines, and if they are five miles from a licensed chemist and druggist they may keep open shops; and these shops they may continue to carry on even if a chemist and druggist should open in the same locality later.

The schedule of poisons follows that of Great Britain, though carbolic acid is added to the second part. Another schedule is appended of drugs and chemicals which anybody may sell, which as now compiled seems expressly calculated to destroy the whole effect of the Act, as far as the protection of the public is concerned. The schedule runs as follows:—

Sheep-dips	Liquorice
Medicines for cattle (not being any of the poisons mentioned in Schedule A)	Resin
Patent medicines	Cream of tartar
Proprietary medicines	Tartaric acid
Sulphur	Carbonate of soda
Saltpetre	Epsom salts
Sulphate of iron (commercial)	Glauber salts
Bluestone	Castor oil
Borax	Turpentine
Camphor	Raw and boiled linseed oil
Alum	Sweet oil
Ginger-root	Eau de luce
	Ammonia

And all other general articles of commerce which may contain any of the poisons mentioned in Schedule A

It is quite reasonable that many of the articles named should be exempt from any restrictions of sale; but it is difficult to imagine that there can be anything, unless it be a rare alkaloid, which would not come within the comprehensive scope of "all other general articles of commerce." Surely opium, carbolic acid, corrosive sublimate, oxalic acid, are included in such a designation. Even if they are not they, or any other poisons, can be put up as "proprietary medicines," and then "nothing in this Act contained shall be construed as a restriction on the sale . . . even though any such article may contain some poison mentioned in Schedule A, or preparation thereof." It does not seem possible to enforce the Act with any public advantage if it is allowed to remain as it is at present expressed, though with a few verbal amendments it might be made a very useful piece of legislation. Clearly the lines "Patent medicines" and "Proprietary medicines" should be deleted from the list, or the proviso appended to cattle medicines should be added to these lines.

A CHANCE FOR CHINESE MERCHANTS.

There seems to be a chance of opening up a good deal of business in drugs, scents, soaps, &c., in the district of Amoy in China. Consul Gardner gives some interesting information on this subject in his report for 1896, as he did in that of the year before, and it would be a pity if no advantage were taken of his hints by some of our merchants. Unfortunately, the things most likely to sell are very cheap and nasty ones. "The natives," says Consul Gardner, "are great believers in medicines, especially tonics. They suffer much from low malarial fevers, and the sale of quinine might be much extended. Other common forms of disease are worms, dysentery, costiveness, and coughs. Drugs for these affections, in the form of lozenges, tablets, and pills, should be readily saleable. Neuralgia, rheumatism, and ophthalmia are also prevalent."

Having given a list of the preparations which he thinks most likely to find a market, the Consul proceeds to throw out some hints on the manner of putting up the goods. This is a matter of much importance, for the Chinese often buy minor articles—biscuits in tins, simple remedies, scents, matches, soaps, &c.—merely for the sake of the wrapper or box, especially if that receptacle should be considered of good omen on account of its colour or shape. "Each bottle or packet of medicine," writes Mr. Gardner, "should be wrapped up in a paper stating in Chinese the diseases for which the medicine is a remedy." The Consul sends with his report four bottles of Cantonese essential oil, which has a ready sale as a specific for neuralgia. Each bottle is put in a cardboard box, and has an advertising wrapper. The smaller bottles retail at 1½*d.*, the larger at 2½*d.* each in Amoy, so there is not much room for "cutting." The retail price in Chinese "cash" (of which forty go-

to a penny) should be stated on the packets. The four bottles, we take it, have by this time been lodged in some out-of-the-way place, such as the office of the Associated Chambers of Commerce, where they may possibly alleviate the neuralgia of an overworked functionary. Firms who are interested in the matter should inquire the whereabouts of the samples in question of the Foreign Office before it is too late. British exports to Amoy of scents and cosmetics, Mr. Gardner thinks, would much increase if our manufacturers would study the tastes of the Chinese. The cheapest ½-oz. and ¼-oz. bottles, of a colour considered attractive by the Chinese, such as red or yellow, fitted with the cheapest possible stopper, and filled with cheap, strong-smelling coal-tar scent, are recommended. The bottles should bear "attractive" labels. Musk and patchouli seem to be the favourite scents of the Chinese. In the same way there would be a great demand for lip-salve, rouge, and face-powder, put up in "vases," jars, and packages, and saleable at a cheap price. In the case of scents, the sale would be increased by offering the goods in bottles of shapes the Chinese consider lucky or pretty.

As with scents, so with soaps. The native soap seems to be half-brother to that Italian article which Mark Twain found so extremely useful as a paper-weight. It is fine soap, but it does not lather. Mr. Gardner invites European merchants to introduce very small cakes of cheap, highly-scented soap, nicely labelled, and sold in boxes of three pieces of assorted colours. Red and yellow, again, are the best colours, because the one signifies rejoicing, the other dignity. Plain white or buff and combinations of blue with white or buff should be avoided, because these colours are associated, in the Chinaman's mind, with death and mourning. Trifles that seem of no possible concern to the European may be fatal to the sale of an article in China. A green cap on the head of a figure, for instance, represents to the Chinaman the depth of misfortune. In the matter of "lucky" shapes of packages, trade-marks, or labels, the Chinese are equally capricious. Representations of the undraped, or partially undraped, human figure should be rigidly avoided, not so much for decency's sake (the Chinese are not squeamish), as for the sake of "luck." Consul Gardner also thinks a lot of advertising by poster. In happy China, it seems, there are no advertising agents, and posters may be stuck up anywhere free of charge. The Chinese are a leisurely people and if a poster suited to their ideas of decency and artistic beauty—which the ordinary European poster is not—be stuck up, every word of it will be read by the passers-by. The Consul adds that there is already one British firm in Amoy, who carry on a business of the character he suggests. That firm, which is a well-known house in the Chinese drug-trade, will no doubt receive with gratitude the Consul's intimation that there is room for lots more in the same line of business.

THE PRODIGAL'S CAREER.

It would be difficult to say that the Pharmaceutical Society has done more or better service for the trade in the latter half of its existence than it did in the course of its first twenty-eight years, from 1841 to 1868. In those earlier years it made itself and its work known (and this was a more costly business then than it is now), it obtained a charter, it got its two Pharmacy Acts, and it organised every part of its work which has lasted. All this was accomplished at an expenditure of 101,917*l.*, an average of 3,640*l.* per year. This sum included all the expenditure on the Society's examinations. On January 1, 1869, there was a sum of 7,490*l.* to the credit of the general fund of the Society.

Now turn to the second half of the history. In the twenty-seven years 1869 to 1895 the Society spent the sum of 203,247*l.*, and this amount is exclusive altogether of the costs of the examinations. At the end of the period they possessed 5,551*l.* invested in ground rents and buildings in Edinburgh and London, which cost some 25,000*l.* We challenge anyone to prove that the Pharmaceutical Society has done as good work, or got anything like such good results, for the 200,000*l.* as it obtained for its first 100,000*l.* The larger sum has been to a large extent wasted in what is little better than gambling speculations. And yet, in order to keep up that reckless style of living, the Privy Council is now asked to sanction an absolutely unjustifiable demand on all applicants for qualification for the trade.

It is interesting to look back to the Council's reports for the years 1868 and 1869, the years when the income assured by the Pharmacy Act, 1868, began to be received. There was no complaint then that the fees received for examination were unprofitable; or that the newcomers, if they did not join the Society, got all its benefits for nothing. Very much the contrary. The Council of the Society had (quite rightly) contended with the United Society of Chemists and Druggists for years for the possession of the spoils when the Act should be passed. The Bill of the latter Society was the one which found most favour with the Legislature, but the Pharmaceutical Society were in the position of *beati possidentes*, and they acquired all the benefits. It is of historic interest only now; but the story of the contest, when associated with the death of the chief agitator on the opposite side in bare poverty, with the contemptuous references to the "wretched Poisons Act," which we have become familiar with of late years, and the present utterly defenceless claim for a further impost on the examination candidates, is not a record which the Society can well be proud of.

Let us see how the Council of the Pharmaceutical Society regarded the Act when they first got the powers it gave them. This is what was written in the report of the year 1868, the year, be it remembered, when all provision for the new state of things had to be made:—

"It is not for your Council to speculate on the ultimate issue of this success; they have more particularly to deal with the proceedings of last year, and are able to point with much satisfaction to the effect already produced and made manifest in the balance-sheet just read to you. By this it appears that although no advantage was taken of the opportunity which seemed to offer of requiring even a small fee on registration, yet the increase in the ordinary receipts of the Society during 1868 was more than sufficient to meet the great expenses entailed in carrying out the provisions of the new Act, and that increase is evidence, not merely of financial prosperity, but more notably of educational advancement, which must ever be regarded as one of the prime objects of this Society."

That showed a condition of solid satisfaction at least, but the next year the tone becomes jubilant. In the report for the year 1869 the Council

"has great pleasure in congratulating the Society upon its social and financial advancement," and "notes with satisfaction that during the past year the sum of 4,066*l.* 10*s.* has been invested in Government funds to the credit of the general account; that a further sum of 1,000*l.* remained on deposit with the bankers; still leaving a balance in December [1869] in the Treasurer's hands of nearly 1,000*l.*"

A profit of some 6,000*l.* in a year was calculated to turn the heads of the governing body of the Society, who naturally became more lavish. Salaries were raised, Turkey carpets laid down, conversaziones were held, and the Society

began to move in a higher sphere among other learned societies. And all this, it should be remarked, was accomplished on the original qualifying-fee of five guineas—that is, two guineas for the Preliminary and three guineas for the Minor.

It was not until the 'nineties, when the first pinch of poverty began to be felt, that the allegation that the examinations were not profitable began to be suggested. The new offices in Bloomsbury Square and the new building in Galen Place had destroyed a large part of the investment income, and, moreover, involved a larger expenditure. The Society was, in fact, living beyond its means. The ease with which another 2,000*l.* a year was drawn from the examinees was an almost fatal temptation, and the Council succumbed to it. Expenditure became more reckless than ever, and now the demand for some 5,000*l.* more annual income is coolly submitted, and it is treason to the Society—indecent, we believe, is the official expression—to merely ask for a reason for this audacious claim. How the endorsements of members of the Society in London, Cambridge, Nottingham, Liverpool, and Birmingham make it reputable is what we find it difficult to comprehend.

CO-OPERATIVE PHARMACY IN ITALY.

We have received a copy of the statutes of the Italian Co-operative Pharmaceutical Society, to which we referred in our Colonial and Foreign notes a few weeks ago. The Society seems to have been founded principally for the purpose of supplying its members with oxygen gas. Its membership is limited to persons financially interested in a chemist's business. The capital is unlimited, and the shares are of 50 lire (or 2*l.*) each. Every member must hold at least one and not more than 100 shares. The headquarters of the Society are at Florence, and its field of activity will extend over the province of Tuscany.

The Society has been founded for a term of fifty years, and was registered on October 5, 1896. In addition to the immediate object of providing oxygen gas—why that particular article should have been selected is not apparent—it is intended to provide members with merchandise generally required in their trade at the lowest current price. All goods ordered must be paid for in cash, except in the case of public institutions, to which a short credit may be given—for the Society is empowered to deal with certain bodies outside the range of its own membership. It is intended that 20 per cent. of the profits shall be placed to a reserve fund, 10 per cent. applied towards a sinking fund, and the remaining 70 per cent. divided among the members. The maximum dividend receivable by shareholders is 6 per cent., and any amount left from the 70 per cent. apportioned for distribution after payment of dividend is to be returned to purchasers of goods from the Society *pro rata* of their purchases.

It is stated that the objects of the Society have found a fair measure of support among the Tuscan pharmacists, though we have no information with regard to the amount of capital subscribed. But whatever that may be, there certainly can be no complaint that the Society is not sufficiently officered. In fact, it would seem to us, from a perusal of the statutes, that its chief danger lies in the multiplication of governing and controlling bodies. There are, first of all, the members generally, who are to meet periodically for business purposes. Then there is an Administrative Council; a Managing Directorate (of which the functions are subdivided in various ways); a body of gentlemen known as "syndics," whose functions appear to be chiefly those exercised by auditors in this country, but who are also charged with paying periodical surprise visits to the offices and stores, and checking everything, from the stock of oxygen gas down to the petty cash; and certain officials described as "probiviri," in some degree corresponding with the *prud'hommes* of French commerce. These last-named gentlemen are mediators, and to them is entrusted the onerous duty of settling disputes among the members of the Society. We take it that the disputes must have some connection with oxygen gas, or with the other departments of trade of the company, but there is nothing to show that the "probiviri" may not be called to umpire generally in the shareholders' domestic or other squabbles. Still, in estimating the value of these complicated governing bodies, account must be taken of the fact that in all continental countries it is customary to provide regulations on black and white, with what seems to us ridiculous detail, for all possible and impossible contingencies. Thus article 50 of the statute provides that no one shall be eligible as a syndic who is related to any one of the officers of the company "until the fourth degree of consanguinity or affinity."

The Society is managed on the democratic principle of "one member one vote," no matter what his official holding may be. Applicants must go through a form of election before they can become members. The Society undertakes the analysis of all products it deals in before their delivery to the purchasers, and firms dealing with the Society must agree to abide by the analyses of its chemists. Apparently there is no intention to keep any stock at first. Goods will simply be purchased as the orders of the members come in. All oxygen cylinders and bags used by members must be branded with the Society's trade-mark. Article 21 of the rules and regulations provides that all goods required by members of the Society must exclusively be bought through the Society. That seems rather a draconic rule for such a new body. It is also provided that, should the trading be unsuccessful a general meeting of members must be called, so soon as one-third of the capital shall have been lost, in order to discuss the continuation of affairs, and when two-thirds of the capital are lost the winding-up of the company becomes obligatory. It will be interesting to watch the future of this attempt at co-operation. It is based in several respects on lines that would not be likely to succeed in this country, but that, of course, is no reason why the attempt should not be successful in Italy, where the conditions of life and business are so different from ours.

THE COUNCIL ELECTION.

As stated last week, of the fourteen present members of the Pharmaceutical Council who are ruled out either by the operation of the law of rotation or by ballot, only one declines re-election. This is Mr. T. P. Gostling, of Diss. There are besides three condidates not at present knights of the oval table for one of whom, at least, room must be found. All three may be elected, in which case two of the present members must retire into private life.

Outside the immediate circles of the candidates themselves it is not possible to arouse anything beyond the most languid interest in this election. There is not the remotest possibility of any effect being wrought on the policy of the Council, whoever may be elected. The only ground on which, as far as we can see, one candidate may reasonably be preferred to another is on the question of railway-fares. The proportion of London members of the Council has run rather low, and, therefore, London chemists who can be relied upon to follow their leaders are desired just now, so as to form quorums. For this purpose Messrs. Warren and Hyslop will do as well

as any other two members of the Society in London. Mr. Warren has had some experience of Council work, and, so far as we know, he has never given any trouble by the manifestation of undue individuality. Mr. Hyslop is somewhat of a curiosity, but his erudition and eccentricities are all subject to the supreme control of his allegiance to the prevailing

Mr. Campkin.

Mr. Warren.

pharmaceutical policy of the moment. Mr. Campkin is not a Londoner, but the fare to London from Cambridge is less than the fare from Salisbury, or Dover, or Norwich, or Swansea, or Plymouth, or Birmingham, or Warrington, or Sunderland, so that if he was to replace one of the other provincials there would be some saving to the Society—and we know of no policy so essential as economy to the Pharmaceutical Society just now. We invited the three outside candidates to give us some idea of their views, and we received in reply the following characteristic letter from Mr. Hyslop:—

39 Church Street, Marylebone, N.W.,
April 10, 1897.

To the Editor of The Chemist and Druggist.

Dear Sir,—Replying to your courteous request for one of my recent photos and a statement of my views for publication, I beg to say that really I have no photo of recent execution, and should by no means think of sitting for one now, as my appeal to the support of the electorate rests entirely upon their estimate of the man's qualities of mind and heart, and has little to do with those feminine notions of pocket or outward appearance.

For the last twenty years off and on, and for the last seven years continuously, have I been speaking and writing my own opinions most freely, and those who are really interested in matters pharmaceutical must surely know the man so well as to render any sort of an advertisement a bare superfluity. My contention all along has been that the Pharmaceutical Society does represent "the trade" in its essential, its widest, and its truest sense; that what prompts and feeds the opposite notion is the vulgarity so very common of confounding the idea of "delegation" with that of "representation," which raises such thick clouds of dust to blind men's mental vision that at length they think them identical, and blunder on worse and worse

With respect to the proposed changes in the by-laws, whatever have the rival journalist, the grinder-up for the examinations, the parents and guardians of our future pharmacists, or these little boys themselves to do with the matter? After mature consideration it is decided that the betterment of our business, the public welfare, and the probable exigencies of the near future *re* increased expenditure, which is ever necessary in an expanding concern, all demand it. Who can object?

I am, dear Sir, yours faithfully,
J. C. Hyslop.

The amusing theory that the Pharmaceutical Council is to rampage about helping itself to other people's cash, and that the sufferers are not to have a voice in the matter, is a peculiarly Hyslopian argument.

Mr. Warren states that it is his desire

to forward as soon as possible a measure that shall give to all qualified men the privilege to become members of the Society and to be eligible for a seat on the Council. As this is an unopposed measure, it should not be long before it becomes law.

I may also add that I think the Society should watch the interests of the trade in the matter of the Food and Drugs Act, and as far as possible protect it from vexatious prosecutions.

My great hopes for the future of pharmacy are based on the maintenance of a strong Pharmaceutical Society supported by an increasingly loyal and educated membership, and I therefore most heartily endorse the policy of the new by-laws. I may say that I have felt it my duty to read and digest the remarks made upon the subject in your journal, and shall be prepared if necessary to give what appears to me a sufficient answer to them.

We are glad that Mr. Warren feels it his duty to read and digest the remarks made on the subject of the by-laws in this journal, but we are getting rather tired of this perpetual boast of the Society champions that they could reply to our criticisms if they chose. We shall cheerfully give space to Mr. Warren or any other adversary who will take the trouble to acquaint himself with the facts of the controversy.

Mr. Campkin sends us a lengthy statement of his views, but stipulates that in the form sent they are not for publication, and we had not time to communicate with him a second time before the day of publication.

CORNER FOR STUDENTS TOURNAMENT.

It will be remembered that we are offering three special prizes and certificates to the competitors in our Corner for Students who score the largest numbers of marks in six monthly contests. Last week we gave the result of the second round, which places the first ten, at that date, in the following positions:—

	Marks		Marks
E. Ockenden	195	W. J. Lacey	179
A. E. King	184	Sepia	177
C. J. Packham	181	Tesla	175
Tyers	181	Dogged	172
Phœophycin	180	C. H. Widdows	170

There are others close up, so that these ten will have to maintain their efforts without relaxation if they wish to hold their advantage to the finish.

EXOTIC PLANTS IN FLOWER AT KEW.

Among the foreign plants now in flower at Kew Gardens are two of special pharmaceutical interest. One of these is *Rhus aromatica*, a shrub attaining a height of 6 feet, and a native of rocky situations in North America. It is distinct from most of the other species of the genus in that the flowers are in the form of yellow catkins. The bark has an aromatic odour, especially when fresh, with an astringent, aromatic, and faintly-bitter taste. In America it is said to be valued, in the form of an alcoholic tincture, as a remedy in the treatment of diabetes. A group of this species is now flowering at Kew in the open. This is one of the plants supposed to be used by the Puma Indians of Arizona for ornamental basket-work. The other plant is the Florida anise-tree (*Illicium floridanum*), an evergreen shrub or small tree rarely exceeding 6 feet in height, having crimson flowers borne singly, and lanceolate leaves. It is a native of Florida, has been recommended for investigation as a possible substitute for star-anise, and is sometimes used instead of cascarilla. The bark and leaves are strongly impregnated with a spicy aromatic taste and smell, and the bark is also an aromatic bitter. In the South of England this plant succeeds in the open, but it is generally grown in conservatories. This species is represented in several of the houses at Kew, where it may now be seen in bloom.

A DECENNIAL APPEAL.

We trust that the dispute regarding the Pharmaceutical ociety's action upon the Minor fee will not obscure the fact at next month the decennial appeal on behalf of the enevolent Fund is to be made. That is a matter which is ove all controversy, because it is a carefully-administered arity, and the only one upon which unfortunate chemists d druggists or their widows and orphans have a special aim. In consequence of the unique character of the resent year in our national history, the endeavour is being ade to ensure that this year's contributions shall be exceponally good; and there is every reason for believing that is desire will be fulfilled. Manchester has led the way in e provinces, and since London figures so prominently in dividual subscriptions in the dinner list, we consider that e Manchester movement is an excellent one for provincial entres to follow, so that each city or town may figure as a hole. Contributions to the fund as subscriptions or donaons should be addressed to Mr. Richard Bremridge, 16 loomsbury Square, London, W.C.

CHEMISTS AND WINE-LICENCES.

Chemists who are thinking of applying for wine-licences hould note the report on another page of the appeal heard t Kingston Quarter Sessions against the refusal of the orough magistrates to renew an off wine-licence. When Ir. Murison first applied for a wine-licence he proposed to ell only medical or medicated wines, and on that condition he Justices' certificate was granted. It is probable that ome time afterwards he discovered that this condition was n absolutely invalid one, and one which the magistrates had o right to exact and no power to enforce. The Inland Revenue Act 32 and 33 Vict., c. 27, which authorises these icences, expressly limits the power of magistrates to refuse hem unless on evidence of the bad character of the applicant, r the unsuitability of his premises. It is a pretty casuistic uestion whether, under the circumstances, the promise iven was binding, though the proper way of releasing himelf from it would have been for the licensee to have nformed the Conrt that he had discovered that the condition as an invalid one, and that he intended to take advantage f his legal rights. The object of this note, however, is not o discuss a question of ethics, but to make it clear that here is no such thing known to the law as a licence for the ale of medicated wines; and that whenever a magistrate uggests as a condition that a chemist should agree to sell hese only, he should be referred to the statute we have uoted.

AN ANNUAL REGISTRATION-FEE.

Nothing seems more reasonable than the suggestion that ll who are on the register of chemists and druggists should ay the Pharmaceutical Society an annual registration-fee. Those who use it, or who soothe their sense of justice by ccepting it, forget two important facts—*first*, that the Pharmacy Act does not sanction such a fee, therefore its imposition would be illegal, and, *second*, that the framers of the Act considered that the examination-fees would cover this expense for all time, and the Pharmaceutical Society, until it recently got in need of money, was of the same opinion. We have proved to the silence of the Pharmaceutical Council that the examination-fees have more than paid for examination, registration, and protection; but the Council persist in their demand, and Dr. Symes has gone so far as to say, in effect, "since Imperial Parliament will not give us an annual registration-fee, we shall try to get it out of the trade in another way." An annual registration-fee of 5*s*. from each person on the register would mean a revenue of 4,000*l*. a year to the Society; but the Council have never attempted in their legislative experiments to get such a fee. They know that the whole trade would be up in arms against it. Dr. Symes practically admits that. Now they rely upon the 16,000 on the register to stand by quietly and see the total sum taken yearly from some 800 young men who want to be registered. That is the honest truth of the matter. It is not fair play; it is doubly unfair when the fact, already mentioned, is borne in mind that the present fees more than pay for examination, registratio ı, and protection.

INDIAN GUM ARABIC.

We like the way in which the Scientific Department of the Imperial Institute go about their work. They have just reported upon three samples of Indian substitutes for gum arabic and one substitute for frankincense. The results are fully given in the last issue of the Institute *Journal*, and while these corroborate in a measure similar results published five years ago by Dr. Samuel Rideal, there are some new facts about the gums, and there are added the opinions of a number of Mincing Lane gum-brokers respecting the possible market value of the gums. We need only say that the gum of *Odina Wodier* was found to be completely soluble in twice its weight of water, forming a thin adhesive mucilage. This gum has been valued at from 20*s*. to 35*s*. per cwt., and it seems probable that if some pains were taken to have it properly collected in India, a good market would be found for it here. It is known in India as jingan gum. The others seem to be practically valueless at present, and call for no comment, and the same may be said of the *Boswellia serrata*, which is offered as a substitute for frankincense, a now obsolete article in British commerce.

THE CHEMICAL SOCIETY PRESIDENCY.

A curious point has been raised by the writer of the Science Notes in the *Pall Mall Gazette* regarding Professor Dewar's election as President of the Chemical Society. It is understood that a majority of five in a vote of a little over 300 placed Professor Dewar in the chair, and the *P.M.G.* writer says that as there were at least 330 present at the meeting Professor Dewar did not have the majority contemplated by by-law v., which says:—

> The names of those reported to the Chairman by the scrutators as having the majority of the votes of the Fellows present for filling the offices of President [&c.] shall then be announced from the chair as elected.

The *P.M.G.* writer insists that the elected persons must have a majority of the votes of the Fellows present, but it will be observed that that is subsidiary to the report of the scrutators. At the anniversary meeting the scrutators handed in a report showing that Professor Dewar and the other nominees of the Council were elected, and that fact was announced from the chair before any word of protest was raised; therefore, the election was strictly according to by-law. Professor Collie (for Professor Ramsay) and Dr. Wynne (for Professor Dewar), the scrutators, had a dispute before they gave in their report as to the validity of certain votes which were not recorded. A condition of voting is—

> If you wish to substitute any other name, in place of that proposed, erase the printed name in the second column, and write opposite to it, in the third, that which you wish to substitute.

Some voters put their pencils through Professor Dewar's name, and did not write another in the third column. Others wrote Professor Ramsay's name in the third column, but did not erase Professor Dewar's. These votes were not counted at all; they were put into two heaps which seemed equal, but whether they were equal or not did not matter in the least, because they were not votes according to the by-laws. Dr. Wynne argued, "If you claim these second votes for Ramsay, I want these others for Dewar"; but to that the obvious reply of the Secretaries was, "No, they are not true votes, and belong to nobody." Anyway, Professor Ramsay has a moral victory, and Professor Dewar has the chair.

Pharmaceutical Society of Great Britain.

"FIRST" EXAMINATION.

The following are the questions set on Tuesday, April 13:—

LATIN.

(Time allowed—from 11 A.M. to 12.30 P.M.)

I. For all Candidates. Translate into Latin:—

1. The sons had a good mother.
2. Was not the sea tempestuous?
3. You and I will leave the city not unwillingly.
4. Two thousand men were slain; only three hundred were captured.
5. He thinks that we must always obey the wise.

II. Translate into English *either* A (Caesar) *or* B (Virgil).

(*Candidates must not attempt both authors.*)

A.—Caesar.

1. Haec quum pluribus verbis flens a Caesare peteret, Caesar ejus dextram prendit: consolatus rogat, finem orandi faciat: tanti ejus apud se gratiam esse ostendit, uti et rei publicae injuriam et suum dolorem ejus voluntati ac precibus condonet. Dumnorigem ad se vocat; fratrem adhibet; quae in eo reprehendat, ostendit; quae ipse intelligat, quae civitas queratur, proponit; monet, ut in reliquum tempus omnes suspiciones vitet; praeterita se Divitiaco fratri condonare dicit. Dumnorigi custodes ponit, ut, quae agat, quibuscum loquatur, scire possit.

2. Haec eodem tempore Caesari mandata referebantur, et legati ab Aeduis et a Treviris veniebant: Aedui questum, quod Harudes, qui nuper in Galliam transportati essent, fines eorum popularentur; sese ne obsidibus quidem datis pacem Ariovisti redimere potuisse: Treviri autem, pagos centum Suevorum ad ripas Rheni consedisse, qui Rhenum transire conarentur; his praeesse Nasuam et Cimberium fratres.

Grammatical Questions.

(For those only who take Caesar.)

1. Give the gender and genitive singular of *verbis, finem, se dolorem, precibus, ipse, civitas, tempus, custodes.* (Passage 1.)
2. Give the third person singular of the indicative perfect and of the subjunctive present of all the verbs in Passage 2.
3. What is the difference in meaning between the singular and the plural of *copia, impedimentum, auxilium*?
4. Point out the difference between *ne* and *non*, and write short sentences in illustration.

B.—Virgil.

1. Arma virumque cano, Trojae qui primus ab oris
Italiam, fato profugus, Lavinia venit
Littora; multum ille et terris jactatus et alto,
Vi superum, saevae memorem Junonis ob iram.
Multa quoque et bello passus, dum conderet urbem,
Inferretque Deos Latio: genus unde Latinum,
Albanique patres, atque altae moenia Romae.
Musa, mihi causas memora, quo numine laeso,
Quidve dolens regina Deum, tot volvere casus
Insignem pietate virum, tot adire labores
Impulerit. Tantaene animis coelestibus irae?

2. Postquam introgressi, et coram data copia fandi,
Maximus Ilioneus placido sic pectore coepit:
O regina, novam cui condere Jupiter urbem,
Justitiaque dedit gentes frenare superbas,
Troes te miseri, ventis maria omnia vecti,
Oramus: prohibe infandos a navibus ignes,
Parce pio generi, et propius res aspice nostras.

Grammatical Questions.

(For those only who take Virgil.)

1. Give the gender and genitive singular of *virum, qui, ille, vi, bello, genus, numine, pietate, animis.* (Passage 1.)
2. Give the third person singular of the indicative perfect and of the subjunctive present of all the verbs in Passage 2.
3. What is the difference in meaning between the singular and the plural of *copia, impedimentum, auxilium*?
4. Point out the difference between *ne* and *non*, and write short sentences in illustration.

ENGLISH

(Time allowed—from 3 P.M. to 4.30 P.M.)

1. How does the accent of the following words affect their meaning?—*refuse, frequent, compact.*

2. Analyse the following passage:—

"Such were the sounds that o'er the crested pride
Of the first Edward scattered wild dismay,
As down the steep of Snowdon's shaggy side
He wound with toilsome march his long array."

3. Parse fully the following words in the passage given in Question 2:—*such, that, o'er, as, down, wound, toilsome, array.*

4. In the following passage supply the necessary capital letters and put in the stops and inverted commas where necessary:—for whom are you called out an officer of the foot guards for the king replied a voice from the ranks of the rebel cavalry for which king was then demanded the answer was a shout of king monmouth mingled with the war cry which forty years before had been inscribed on the colours of the parliamentary regiments go with us.

The following question must be attempted by every candidate:—

5. Write a short essay on
(i.) Some act of heroism of which you have read or heard;
or
(ii.) Changes in the social condition of the people during the reign of Queen Victoria.

ARITHMETIC.

(Time allowed—from 12.30 P.M. to 2 P.M.)

(*The working of these questions, as well as the answers, must be written out in full.*)

1. How much coal will be required for 6 fires for 27 weeks, each fire consuming 1 cwt. 1 qr. 14 lbs. weekly?

2. If 6 men, working 8 hours a day, could do $\frac{4}{5}$ of a piece of work in 20 days, in how many days could 15 men, working 10 hours a day, do $\frac{7}{8}$ of it?

3. What fraction is that from which if $\frac{2}{3}$ of $\frac{1\frac{3}{4}}{2\frac{2}{5}}$ be taken, and the remainder divided by $\frac{5\frac{1}{6}}{13\frac{2}{3}}$, the result is $\frac{1}{3}$?

4. Express as a decimal fraction—

$$\frac{\cdot 53}{\cdot 61} \text{ of } \frac{\cdot 825}{\cdot 419} \text{ of } 1\tfrac{2}{3}.$$

5. How many times could ·0007 of a shilling be taken from 41*l.* and what decimal of a penny would be left over?

6. In a certain town of 987,648 inhabitants, 567 people died in a certain week. Find, to two places of decimals, the death-rate per thousand per annum.

The following question must be attempted by every candidate:—

7. Name the metric unit of length, and give its equivalent in English measure. Express, approximately, the number of *grammes* equal to 9 cwt. 1 qr. 3 lbs.

Bismuth Preparations and their Impurities.

By B. S. Proctor, F.I.C.

For many years past bismuth preparations have been a source of occasional trouble to pharmacists. My first notes on their examination I find dating back to 1872, at which time I found a sample of pharmaceutical subnitrate not perfectly soluble in nitric acid.

In 1874 I found the oxide not free from nitric acid.

In 1881–82 I found it difficult to meet with samples in the drug-trade free from tellurium, several of the noted London houses having failed to supply the salts free from this impurity, the indications of its presence being the fœtid breath which it produces with some patients, while others—hundreds of others—were taking the same without any inconvenience. Fortunately one of my clients who suffered in this way was taking Schacht's liquor of bismuth without any annoyance, thus indicating that Mr. Schacht was fortunate enough to have bismuth free from tellurium, and on application was good enough to supply me with a few pounds.

From that time to 1885 bismuth was frequently under my examination, and most samples gave indications of this same enemy. In the spring of 1886 Messrs. Hopkin & Williams favoured me with their mode of testing, which was as follows:—"Dissolve a small quantity of the trisnitrate in

drochloric acid (pure, of course), and evaporate to dryness as to drive off all traces of nitric acid; this is essential. e solid chloride of bismuth is then dissolved in a little ter acidulated with hydrochloric acid, and, if necessary, ered; sulphurous-acid solution is now added in excess, d the mixture boiled; if a trace of tellurium is present, reddish-brown precipitate is produced." But this test, ough in accordance with general chemical authority, did t prove enough to protect us from the small trace of llurium which was an annoyance to certain patients and eir friends. This led me to seek other and more delicate ts, and stannous chloride, used in the same way as when ting for arsenium, proved to be more satisfactory; since t time I have declined all samples which do not stand is test. For a year or two I continued to receive samples ich had to be rejected, but having found one manufacrer who constantly produced a satisfactory degree of rity, I saved myself trouble by confining my purchases to s preparations.

The last few years I have again accepted bismuth salts m other works, and have not detected either tellurium, senium, or other metallic impurities. I am not prepared say whether this is the result of better working or of riation in the crude bismuth, some of the ores being free m this troublesome contamination; but as I find some erators who are considered to be authorities on this subt appear still to be relying upon the old test of sulurous acid, I think it well to remind my fellow-pharacists of its doubtful sufficiency, and to give them the nefit of more recent observations which I have made on is subject. On one occasion, applying to my stannousloride bottle and finding it empty, I looked about for e other reducing-agent likely to give good results, which could use while more stannous chloride was being prered. Hypophosphite of sodium suggested itself, and upon al proved so satisfactory that I now suggest its adoption the most convenient reagent usually found in our pharacies. The method of operating which I have found nvenient is as follows:—

Take of—
Bismuth subnitrate (or carb.) .. .. .. 10 gr.
Dissolve without heat in—
Strong hydrochloric acid.. .. .. .. fl 5j.
Water .. .. 5j.
Add—
Sodium hypophosphite .. .. 10 gr.

An evolution of nitrous fumes will take place if the sample B.P. bismuth alb., but of carbonic acid only if it be bonate; but no development of colour or precipitation if e bismuth salt be pure. If tellurium be present in very all proportion a black precipitate will fall, and if arsenium the impurity the precipitate will be brown.

Shortly after having adopted this reaction, I found hypoosphorous acid had been recommended for precipitating smuth itself by Muthmann and Mawrow, in a paper pubhed in *Zeitung Anorg. Chem.*, which was abstracted by *hemical News*, January 29, 1897, and noticed by THE HEMIST AND DRUGGIST; but the English journals do not ve a sufficiently precise account of the operation to secure ccess. I do not presume to criticise the German paper; t in the English abstract it is stated that the authors ving found hypophosphorous acid suitable for the deterination of copper, &c., now find it advantageous for the ecipitation of bismuth "under suitable precautions"—a atement I do not dispute, but the definitions in the *hemical News* are not exact enough to be a safe guide. The atements that the solution of bismuth should not be *too* rongly acid, that an *excess* of hypophosphorous acid is to be dded, that the solution should be *moderately* concentrated, at a *few* c.c. of the acid are to be added, and the mixture eated in a water-bath or boiled, leave many important oints to the judgment of the operator. The writers indite the completeness of the precipitation by stating that e supernatant liquor only gives a brown tint with H_2S if sufficient hypophosphorous acid has been added, or the eat not long enough continued. Previous to the time I met ith this statement my experiments had been performed ithout heat, and the point now to be noted is that tellurium nd arsenium are thrown down when no heat is applied, and ismuth is precipitated in the metallic state when the solution is boiled.* I have kept the mixture at normal shop temperatures for several days without any reduction of the bismuth taking place; but on applying heat the bismuth was precipitated from such mixtures as the above test, but not when the same reagents are applied to the official citrate of bismuth.

I will now give in brief detail an account of some of my experiments, and then comment upon the conclusions to be deduced from them.

(A 48.) I prepared a solution of tellurium by dissolving 1 gr. of the metal (or metaloid, if that be more correct) in aqua regia, evaporating to dryness to get rid of all the nitric radical, redissolving in water with a little HCl, and making up the measure to 1,000 minims, so that by taking a drop of the solution I had a fair approximation to $\frac{1}{1000}$ gr. of Te.

I adopted the B.P. liquor arsenicalis as my standard of arsenium, and regard 1 drop as equal to about $\frac{1}{100}$ gr. white arsenic, or 0·006 of arsenium—rough figures, but near enough for the work in hand.

The experiments are numbered (C. 48), &c., for facility of reference, the numerals indicating the page in my book of notes, and the letters the order of the experiments on that page.

Hpp. is used as a contraction for sodium hypophosphite, and SnCl for the official solution of stannous chloride. HCl means the official strong acid.

Pure Bismuth Salts.

Exp. No.	Bism. Salt	Solvent	Reducing Agent	Reactions and Time	Notes
D 48	10 gr. B. alb.	fl 3j. HCl	10 gr. Hpp.	Immediate white precip. No colour in twenty-four hours	Nitrous fumes evolved. 5j. water added dissolves precip.
A 49	10 gr. B. carb.	fl 5j. HCl	10 gr. Hpp.	Prompt white precip. No colour in twenty-four hours	5j. water added dissolves precip.
B 57	10 gr. B. carb.	3iss. Aq. HCl q.s.	6 gr. Hpp.	Without heat a little colour. In twenty-four hours small precip. Increased in two days	26 min. HCl required
B 57 bis	10 gr. B. carb.	3iss. Aq. HCl q.s.	6 gr. Hpp.	With heat promptly black	Boiled with equal vol. of HCl, precip. redissolved in six or eight minutes
C 57	10 gr. B. carb.	Aq. 40 m. HCl 80 m.	6 gr. Hpp.	No change, hot or cold, in four days	
F 57	10 gr. B. carb.	Aq. 40 m. HCl 26 m.	20 min. SnCl	No change in two days, cold or hot	F and G compare the effect of slightly acid with strongly acid solutions. A large excess of HCl is said to promote precipitation of As by SnCl. Not so the precipitation of bismuth
G 57	10 gr. B. carb.	Aq. 40 m. HCl 80 m.	20 m. SnCl	No change in two days, nor on heating	

NOTE.—D 48 and A 49 show precipitation of white bismuth salts only from the deficiency of water.

DEDUCTIONS, BISMUTH.

That bismuth in ordinary acid solutions is not precipitated either by stannous chloride or hypophosphorous acid without the application of heat. See D 48, A 49, C 57, F 57, G 57.

That when the bismuth solutions are so nearly neutral that a slight addition of water causes precipitation of basic salt, the addition of sodium hypophosphite causes the reduction of bismuth—slowly without heat, rapidly on boiling—and that the reduced bismuth redissolves gradually on boiling with a liberal addition of HCl. See B 57.

* Provided that citrate of ammonium is not present, or other matters interfering with the reaction.

That stannous chloride does not precipitate bismuth either in strongly-acid solutions, or solutions nearly neutral, either cold or hot. See F 57, G 57.

Tellurium in Small Quantities with Various Quantities of Reducing Agents.

No.	Te. Fraction of gr.	Bism. Salt in grains	Solvent	Reducing Agents	Reactions, Time, Heat, &c.	Notes
C 43	$\frac{1}{100}$	0	Aq. 50 m.	Hpp. $\frac{1}{10}$ gr.	No prompt change	Add 5j. HCl. No change till warmed, then prompt blackness. No bis. present
E 48	$\frac{2}{100}$	10 gr. Bis. alb.	HCl fl. 5j.	Hpp. 10 gr.	White precip. promptly. Black precip. slowly	White precip., bulky deposit of basic salt quickly subsiding. Black precip. small, light
A 50	$\frac{2}{100}$	10 gr. Bis. carb	Aq. fl. 5j. HCl fl. 5j.	Hpp. 10 gr.	In half hour, dark. Small precip. slowly settles	In this degree of dilution the bismuth salt is not thrown down
C 50	$\frac{1}{1000}$	10 gr. Bism. carb.	Aq. fl. 5j. HCl fl. 5j.	Hpp 10 gr.	In half hour, dark. In twenty-four hours, small black precip.	In this small quantity of Te. the precip. very slowly deposits
E 50	$\frac{1}{1000}$	10 gr. Bism. carb.	Aq. fl. 5j. HCl fl. 5j.	Sulphite sod. 10 gr.	Not dark in four hours. Dark in twenty-four hours	A very small precip. subsided on the second day
G 50	$\frac{1}{1000}$	10 gr. Bism. carb.	Aq. fl. 5j. HCl fl. 5j.	Stan. chlor.	Promptly darkened. In twenty-four hours small precip.	The stannous chloride added in small, but indefinite, quantity, few drops
D 57	$\frac{1}{1000}$	0	Aq. 50 m.	Hpp. $\frac{1}{20}$ gr.	No change, cold or hot, or on keeping two days	Intended to test the action of a small quantity of the reducing agent with small quantity of tellurium. No acid added
E 57	$\frac{1}{1000}$	0	Aq. 50 m. HCl fl. 5j.	Hpp. $\frac{1}{20}$ gr.	No change, cold or hot, or keeping two days	On third day 1 gr. Hpp. added, a small precip. appeared in twenty-four hours
H 57	[illegible]	0	Aq. 50 m.	Hpp. 6 gr.	No change on keeping two days	Third day a fraction of drop of HCl added developed a blackening
J 57	$\frac{20}{1000}$	0	Aq. 5ss.	Stan. chlor. 6 m.	Instant blackness	
K 57	$\frac{20}{1000}$	0	Aq. 5ss.	Hpp. 1 gr.	Promptly dark	Not quite so strong reaction as in J 57. The tellurium sol. contained HCl
C 58	$\frac{1}{1000}$	Bis. carb. 10 gr.	Aq. 5ss. HCl 25 m.	Hpp. 6 gr.	Little precip. in twenty-four hours. Liquor tinted brown	
F 57	—	Bis. carb. 10 gr.	Aq. 40 m. HCl 20 m	Stan. chlor. 20 m.	No change in two days, or on heating	When cold add $\frac{1}{1000}$ Te., instant blackness; precip. in a few hours, increased in twenty-four hours; supernatant liquor colourless

Deductions, Tellurium.

That tellurium in simple solution 1 in 1,000 is immediately indicated by either stannous chloride or hypophosphorous acid without heat. See J 57, K 57.

That in very dilute solutions, 1 in 50,000, it is not so readily indicated without heat, but blackens on warming. See C 48.

That the reaction is influenced by the quantity of reducing agent; thus $\frac{1}{20}$ gr. of hypophos., though theoretically more than sufficient to reduce $\frac{1}{1000}$ gr. tellurium, does not give indication in the same solution as is precipitated by 6 gr. of the hypophosphite. See D 57, E 57, H 57.

That tellurium, in the presence of bismuth, yields more promptly to reducing agents, 2 parts tellurium in 10,000 of bismuth and 60,000 of HCl Aq. giving more prompt reduction than the same quantity of Te. and solvents without the bismuth. Compare E 48 and A 50 with C 48 and H 57.

That hypophosphite of sodium is not an active reducer till the acid is liberated by HCl. &c. See H 57, K 57, the latter containing 30 minims of a slightly-acid solution of Te.

That the limit of detection of Te. by this means is about 0·001 gr. in 100 gr. of solution, or 1 in 100,000; experiments where the proportion is so small become rather ambiguous.

That it is not necessary to drive off the nitric acid from samples of bismuth alb. in testing for Te. with hypophosphite, if used in the quantity and manner first indicated.

Arsenic in Small Quantities with Bismuth and Reducing Agents.

No.	As_2O_3 fraction of gr.	Bism. salt in grs.	Solvent	Reducing Agent	Reactions, Time, Heat, &c.	Notes
F 43	As_2O_3 $\frac{2}{100}$	10 gr. Bism. carb.	HCl fl. 5j.	Hpp. 10 gr.	Immediate white precip. Black precip. in twenty hours.	The white precip. (bismuth salt) abundant and heavy. The dark precip. browner than tellurium, and subsides very slowly.
	As_2O_3 $\frac{2}{100}$	10 gr. Bism. carb.	Aq. 5j. HCl fl. 5j.	Hpp. 10 gr.	Brown coloration promptly. Small precip. in twenty hours.	
D 50	As_2O_3 $\frac{2}{100}$	10 gr. Bism. carb.	Aq. 5j. HCl fl. 5j.	SnCl	Scarcely visible change in two days.	The stannous chloride was first added, two or three drops. After two days more was added, and soon precipitated. The bulk of the precip. looked about equal to that of C 50 from $\frac{1}{1000}$ Te.
F 50	As_2O_3 $\frac{2}{100}$	0	HCl fl. 5j.	SnCl	No immediate change, but copious precip. in ten minutes.	This compared with D 50 suggests that bismuth retards the reducing action of stannous chloride

Deductions regarding Arsenic.

That $\frac{1}{100}$ gr. arsenic (oxide) gives no more, or rather less, bulk of precipitate than $\frac{1}{1000}$ gr. of tellurium.

That the arsenical precipitate is slower in making its appearance.

That the colour of the arsenium precipitate is brown, on subsidence, the tellurium, if very small, being brown in suspension, but black on subsidence.

As the precipitation of bismuth and several other elements is effected by hypophosphorous acid under slightly varying circumstances, it is safer to operate with the proportions of materials and reagents as first described—at least, until fuller experience has been obtained. The liquor of citrate of bismuth and ammonia does not respond to the reagents in the same way as liquors in which the bismuth is retained in solution by the action of HCl only. My observations on the reactions of bismuth in presence of citrates and other organic matters are not yet mature enough for publication.

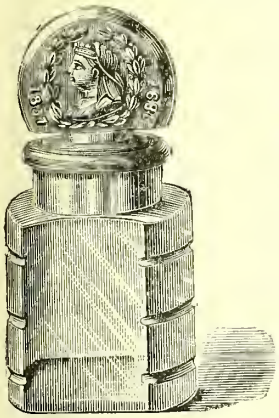
NOVELTIES

VICTORIAN PERFUMERY.

We may depend on the perfumers in this Record Reign year vieing with each other to commemorate the Diamond Jubilee. Messrs. J. Grossmith & Co.'s effort will be hard to beat, whether the richness of the perfume in their Victorian bouquet and Victorian floral sachets, or the daintiness of the exterior, is regarded. The bouquet, which is described on the label as "a tribute of fragrance," is enclosed in a very delicately tinted carton of a new form, and is very attractive.

A VICTORIA COMMEMORATION BOTTLE.

The annexed engraving is a faithful representation in all but size of a Jubilee smelling-salts bottle, which Messrs. H. Poths & Co., 3 Creechurch Lane, Leadenhall Street, E.C., are making a leading line of just now. The portrait of Queen Victoria on the stopper is done in cameo style; it may be moulded for all we know, but does not look like it, and is finished off as if by the sandblast. The stoppers are English ground apparently, and fit beautifully. The bottles are made in white, blue, and actinic-green glass, and "the Victorian Commemoration Smelling-bottle" is the full title.



JUBILEE ILLUMINATION-LAMPS.

Messrs. Hearn, Wright & Co., of the Eclipse Glass-works, Lower Clapton, E., have produced several special designs in their well-known outdoor illumination-lamps for the Diamond Jubilee season. We figure a few of them. They are produced in several tints, and will burn night-lights, or oil and floating lights can be used in them. There is a big business being done in these lamps just now, and many chemists can get a share in the trade and in the lighting materials to go with the lamps if they only look sharp. It does not mean much trouble, because the lamps can be sold in the original packages of a dozen upwards, with the requisite lighting materials sufficient for one or more evenings' illumination. Messrs. Hearn, Wright & Co. will supply samples and particulars.

"SHADEINE."

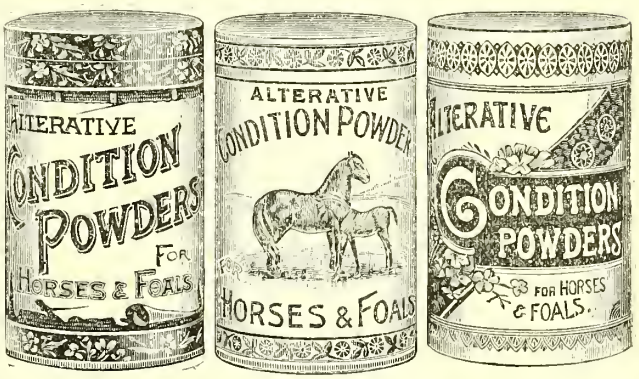
Mr. L. Alexandre, 30 Westbourne Grove, W., informs us that his "Shadeine" for colouring grey hair has taken so well that he is now arranging chemists' agencies throughout the country, and any who wish to take it up should communicate with him. Mr. Alexandre has also arranged a new show-card containing a dozen 6*d.* specimen-bottles of the speciality—*i.e.*, two of each of the colours blonde, brown, dark-brown, black, auburn, and golden. The peculiarity of "Shadeine" is that it is free from lead and silver, and as far as we can judge from an experimental effect it seems to do its work well. The larger bottles retail at 3*s.* 6*d.* and 10*s.* 6*d.*

"ROYAL LILY."

Messrs. Van Oppen & Co., of Hackney, E., have shown us one of the most charming things in the way of perfumes which we have seen for many a day; this is the "Royal Lily," made by La Maison Violet, of Paris, and turned out in the exquisite style characteristic of that house. The perfume is the true scent of the lily of the valley, has a pale-green colour, and is labelled with green-and-gold satinette labels, the stoppers being tied with spectrum silk ribbon. The first sample of a case of three of these bottles has been shown to us. The case has the characteristic label on it, and is otherwise pleasant to look upon. We quite anticipate that the "Royal Lily" will this summer beat the violets, popular as they are at present, for the odour is as individualistic as it is delightful.

BULK-POWDER BOXES.

Messrs. Ayrton & Saunders, Duke Street, Liverpool, have brought out a series of useful boxes for condition-powders, which are made of brown cardboard, the bottoms and the lids being moulded and seamless. Each box holds a pound of powder, and is finished off with the labels, even a band for fixing the lid of the filled box being enclosed in each one. The labels are well designed and executed in colours. The prices vary according to the number of colours used. Some of the labels have useful matter printed on the back of them, and others have a blank space for what the buyer selects if he can take a sufficient quantity; but the main point about the boxes is that the small man as well as the big one can get them, as they are stocked without any name upon them. The above engravings sufficiently illustrate the styles, but we should add that the boxes are also made for baking-powders and similar articles.



"ECLAIR" INSECTICIDE SPRAY-PUMP.

Country chemists are so often asked for assistance by horticulturists in putting down garden and crop pests that

it needs no apology for us to bring under their notice a useful apparatus for spraying insecticides of all kinds over trees, hops, &c. This is Vermorel's knapsack spraying-pump,

put on the English market by Messrs. C. Clark & Co., 20 Great St. Helen's, E.C. It is recommended by the Board of Agriculture, Miss Ormerod, and others in authority, and has been used for the treatment of potatoes, hops, vines, fruit-trees, tea, coffee, and all other crops. It gives a fine, medium, or coarse spray, with thin or thick fluids. The nozzle is arranged so as to deliver the spray straight in front, right, left, up or down, at the will of the operator, who can change its direction instantaneously. Colonial houses' buyers obtain the pump through Messrs. Clark.

A NEW LUNG-PROTECTOR.

Mr. T. G. Forshaw, 138 Westgate, Bradford, has invented a new chest and lung protector, which differs from most others in having the point of the heart applied to the top of the chest, leaving the other parts to amply cover the lung region. The protector is made of exceptionally thick grey felt, lined with white nun's cloth, and appears to be a comfortable article to wear.

N. F. COCOA.

The Natural Food Company (Limited), Bermondsey, S.E., have just introduced a superior prepared cocoa, with which is combined a proportion of Dr. Allinson's natural food. The cocoa makes a nice flavoured beverage, and the combination of the food with it makes it an ideal breakfast adjunct. In connection with the introduction of the cocoa, the company have introduced a coupon system for summer sea-trips. Each of the tins contains a photo. of Dr. Allinson, and five of these from 2*s.* 6*d.* tins, twelve from 1*s.* tins, or twenty-four from 6*d.* tins entitle the holder to a free ticket to Southend and back; larger numbers of tickets provide trips to Margate or Boulogne. Metropolitan chemists especially should be able to make a special feature of this cocoa during the summer months.

A NEW IDEA IN CATHETERS.

Mr. R. Manson, 75 Fortess Road, Kentish Town, N.W., the manufacturer of "Non Plus Ultra" Catheters and Bougies, has shown us a clever thing in elastic-gum catheters, which he has made at the suggestion of Dr. Buckston Browne, of Wimpole Street, W. Instead of the business end of the catheter being straight, it is made like a hook (about 3 inches diameter), but this is quite flexible and soft, so that it goes up the urethra straight, and when it reaches the bladder it enters the mouth quite naturally, and, taking a gentle curve, there is no possibility of the point injuring the wall of the bladder. The other end of the catheter is cut at an angle of 45°, and when this cut is kept downwards one knows that the point of the catheter is in the proper position in the bladder. The eyes of the catheter are woven, and, as a whole, Mr. Manson's goods appear to be examples of good workmanship.

LLOYD SPECIALITIES.

Colonial readers who have not yet seen the export price-list issued by Messrs. T. Howard Lloyd & Co., of Leicester, should not fail to send for a copy of it. It is a well-arranged list. In the first part drugs, chemicals, and pharmaceutical preparations are quoted; then come special articles, such as pearl-coated pills, capsules, compressed tablets, medicated lozenges, and sundries. A pink supplement contains a good selection of specialities put up for retail sale, which seem to us to deserve the attention of colonial druggists as well as those at home. We pick out from the list a few items to show what the firm can do.

This is a dozen box, which can be shown on the counter. It contains 3*d.* or 6*d.* packets, with or without the chemist's name on each. The box contains aperient, astringent, alterative, cough, distemper, tonic, and worm pills, but the assortment can be made whatever the retailer wishes. There is a "doggie" booklet in each packet. The firm's "Biconical" horse-ball is much easier swallowed than the ordinary shape. Each ball is well covered with a soluble gelatine coating, which keeps the mass in a plastic, soluble condition, yet it does not "fall." The chemist's name can be printed on each ball if one gross is ordered. The firm have acquired a high reputation for capsule-making. The "Colloid" is their special make, and they supply them in bulk or neatly boxed as above. We particularly commend to colonial chemists the inklets manufactured by the firm. These are compressed tablets of ink ingredients (black, blue, red, green, &c.), each of which makes with a tablespoonful of water good ink. Several dozen of the inklets are put up in a white-metal vest-pocket box to retail at 6*d.*, and in those climates where the ink-bottle has always gone dry when it is most wanted the inklets should be a boon.

ANTIVENENE.

Messrs. Allen & Hanburys (Limited), Bethnal Green, E., favour us with a copy of a pamphlet containing addresses delivered by Dr. A. Calmette to the British Medical Association, and at the laboratories of the Royal Colleges of Physicians and Surgeons last year, on snake-venom and anti-venomous serums, or "Antivenene." The pamphlet is especially interesting to chemists abroad who are situated in districts where snake-bite is common. Dr. Calmette has, as we have previously reported, succeeded in preparing an anti-venomous serum, the injection of which completely counteracts any venomous snake-bite. The lectures detail the principles upon which the serum is prepared, and give an account of cases treated as well as of several experiments made in the above laboratories before a distinguished audience, in which were several of the leading physiologists and pharmacologists of the day. We note that Dr. Calmette's success has been largely due to his discovery that a 1-60 solution of sodium hypochlorite destroys snake-venom; and it may be well to keep that observation in mind, because when nothing else is at hand, washing a snake-bite with a solution of chlorinated lime is almost certain to retard fatal results until the more certain antivenene is procured. Messrs. Allen & Hanburys (Limited) are the agents for the remedy in all English-speaking countries, and they will be pleased to give any information to inquirers.

"D.C.L." MALT-EXTRACT.

The Distillers' Company (Limited), 12 Torphichen Street, Edinburgh, and Tooley Street, London, S.E., have recently commenced to manufacture extract of malt, and, as our readers are aware, are now offering it to the trade in bulk quantities—viz., packages containing 14 lbs., 28 lbs., 56 lbs., and 1 cwt. respectively. There are now so many makes of malt-extract in the market that it is reasonable to imagine that only new high-class articles can obtain popularity, and this we believe the "D.C.L" extract is likely to attain, because it deserves to be ranked amongst the few extracts which are at the head of the list. Its diastasic power is exceptionally high, as may be judged from the following laboratory note:—

To a mucilage of 30 gr. of arrowroot in 3 oz. of water, 30 gr. of the extract dissolved in ½ oz. of water was added. Temperature of the mixture 115° F., and of the water-bath 118° F.

At the end of 30 seconds					the mixture gave a blue colour with iodine	
"	"	60	"	"	" violet	"
"	"	90	"	"	" pale violet	"
"	"	2 minutes	"	"	" pale brown	"

In another experiment, in which 30 gr. of the starch and 24 gr. of the extract were used, the pale-brown colour was reached in two minutes also. From these results we feel justified in saying that the extract converts its own weight of starch completely in one and a half minute, assuming the violet coloration to be indicative of incomplete conversion, although that is doubtful. Still the cessation of the distinct starch blue within one minute is a sure proof of high quality, and we have not examined any extract which has effected complete conversion under one and a half minute. In other respects the extract is first-class, but as the diastasic property is the one necessary in a medicinal extract, it will be seen that the "D.C.L." is all that could be desired. [Since the foregoing paragraph was written we have seen a report on the extract by Dr. John Attfield which completely confirms our results.]

Another from the "Spatula."—Jackson: "There are drawbacks in the drug-business." Johnson: "What are they?" Jackson: "Porous plasters."

Our Town Traveller.

The Diamond Jubilee

fills London air just now, but I did not know until I got into Barclay's showroom in Farringdon Street that the heirs of this beautiful country are being filled by means of the "Jubilee Feeder." I admit the poverty of this wit, but the truth is in it. Already there are thousands of babies (jubilee babies) who cuddle a feeding-bottle with her Majesty's effigy upon it, and when they get tired of that they soothe themselves with a pretty pure-rubber comforter, which is resplendent with crown, sceptre, and all those emblems which speak of loyalty. I was told by the pawky gentleman who has charge of the showroom that all the babies born this year, being Jubilee babies, will need Jubilee feeders and soothers, and the place to get these is Barclay's. One can buy Jubilee smelling-bottles too, with photo or medallion of the Queen on them, and there are also—but this is April, and I must be careful of my loyal adjectives, as there is sure to be a good demand for them before July. An egg-shaped bottle, with a nickel-screw top, is an Easter novelty which the firm have done well in; so also is the tiny pocket puff-boxes to sell at 1*s.* 6*d.*, 1*s.*, and 6*d.*; *i.e.*, the "Lyons," a beautiful piece of metal-work, with spring-lid, mirror inside, and puff—this for the Missis; the "Paris," in silver or gold, for the Miss of the family; and the "Mignonette," a smaller edition of the second, but different shaped, for the maid. Some pretty new bath-gloves in pink, blue, and heliotrope, with white designs in relief (an old fashion, the name of which I can't quite recall; it looks not unlike a sampler), struck me as being pretty and cheap. There are many things in the showroom besides what I have mentioned, and it is well worth any-one's while, who has five or ten minutes to spare, to look in. A lot can be seen in that time, and quite as much bought; even a Borneo cigar at 18*s.* the 100 is worth the money, and one can't generally say that about a cheap cigar; but Messrs. Barclay & Son have a stock in good condition just now, of which I can say it truthfully.

Ovaline.

This word will soon be writ large before public vision in connection with one of the nicest soaps which have been introduced within recent years, and one differing in composition from all now on the market. The name obviously suggests eggs, and eggs suggested the soap. A gentleman who has much to do with the selling and utilisation of eggs, having his thoughts turned to the well-known emollient properties of egg-yolk, determined to see how he could incorporate the yolk with soap, and the result is a decided success. The next step in the process was to form a company—viz., Peacock's Ovaline Soap Company (Limited)—to carry out the ideas patented, and that company, with offices at 145 Queen Victoria Street, E.C., are now ready to place on the market a series of specialities which we are certain will be much heard of very soon. The specialities are: The Ovaline soap referred to, which is put up for retail in three sizes and styles, to retail at 1*s.*, 1*s.* 6*d.*, and 2*s.* per box (each box is distinctive—cream, blue, and heliotrope are the colours), and also loose in 3-dozen boxes. In addition to these soaps there are shaving cream and stick and a cold-cream, the whole being put up with distinct individuality and good taste. Moreover, the company have taken the precaution to place their specialities on the P.A.T.A. list, and the minimum prices yield 33 per cent. profit. It is customary in introducing toilet-articles with fancy names to put a mere trace of the name-conferring substance into the articles, but this is not the case at all with the Ovaline goods. The patentee's first object was to utilise egg-yolk, obtained as a by-product in the manufacture of dried egg-albumen. It is, therefore, no consideration to him to keep out the yolk, as it suits him better to work it up to as large an extent as he possibly can, and the feature of his invention is that in all the above-named preparations he has succeeded in working in fully 10 per cent. of the material with each of the bases, and without rendering the articles in the least liable to putrefaction. The soap is well made, neutral, delightfully scented, and, while being refreshing in

use, gives to the skin that warm and soft feeling indicative of a good circulation. The same soap-basis is used for all, scent and size determining the prices. I think the soap will be popular, and if one might judge from what has been said of it in various weekly and daily papers, already they have caught on. The company have prepared a series of excellent showcards to advertise the soap. The best of these is undoubtedly the Diamond Jubilee commemoration one, which is a chromo-lithograph portrait of the Queen, much better executed than many of those I have seen in the windows of West End picture-dealers. This is a large card, about 3½ feet by 2½ feet, elegantly framed in walnut and gold. Then there is another framed card, containing a facsimile of the well-known engraving of Sir Joshua Reynolds's "Cherubs"; a third card containing sketches of each of the articles; and two small cards printed in gold and colours on crocodile paper, such as I have not seen before adapted to this purpose.

Chemists' Printing.

Messrs. Ford, Shapland & Co., of 6 Great Turnstile, W.C., have brought out some new handbills for "Jubilee" announcements. The bills vary in design and size, and their prices run from 17*s.* to 32*s.* 6*d.* per 5,000. The one design has an ornamental border contrasting fashions, modes of locomotion, and vessels of the beginning of the reign with those of to-day; the other, which we consider the more effective of the two, has a seated figure of Britannia in the left-hand bottom corner and a device of the Royal and various colonial arms round the border.

Messrs. Ford, Shapland & Co.'s premises, although enlarged and rebuilt only a few years ago, are already beginning to be too small for the firm's ever-increasing business. When I recently called upon the firm I was much struck with the activity and order that prevailed in every department of their business, from the basement of the building, where two large horizontal steam-engines provide motive-power, to the floor below the roof, where sheets of paper are gummed and dried and a staff of girls are busy sorting and packing labels, carefully removing every one that shows the least irregularity of printing.

Two very large printing-machines were hard at work at the time of my call, turning out coloured work for customers located, as the names on the sheets indicated, all over the globe. In the stock-room I was shown some very effective illustrated labels, of which the firm possess the proprietary right. The chemist who cannot make a satisfactory choice out of so large a selection as Messrs. Ford, Shapland & Co. are able to submit to him must indeed be hard to please. The firm have lately added a photo-engraving department to their business, which has proved a considerable success.

Safe Anæsthesia.

Some eight years ago we gave a description of Mr. Krohne's "Regulating Inhaler" for the safe administration of chloroform, and hearing that noteworthy improvements had been made, our Town Traveller looked in at Messrs.

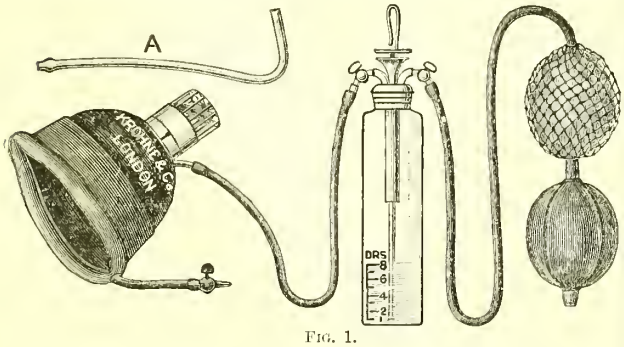


Fig. 1.

Krohne & Sesemann's, 8 Duke Street, Manchester Square, to investigate them. To ask Mr. Krohne to talk about anæsthesia is to mount him on his hobby-horse, and soon our representative had him there. Mr. Krohne produced his improved form of the inhaler, which we illustrate below (fig. 1). Fig. 2 shows the same inhaler, but with a larger bottle and bag attachment for to-and-fro breathing. The apparatus, as will be seen, is very simple and portable. The bottle with the graduations in minims contains the chloroform, and one compression of the bulb forces air through the chloroform, carrying 1 minim of the anæsthetic with it. The crowning feature of the instrument is the "feather, or breathing indicator," fitted to the mask, which shows the rate and depth of the respiration, thus enabling the operator to time the vapour with perfect accuracy. The supply is thus completely brought under the anæsthetist's control, and clearly demonstrates its superiority over the unsafe or "open method" of an uncontrollable quantity poured upon a towel or piece of lint. The fact is now getting to be appreciated that people who are killed by chloroform die for want of breath, and that is what Mr. Krohne's apparatus cannot allow, because the average amount of chloroform-vapour in the air does not exceed 2 per cent. For operations about the mouth or face, when anæsthesia has been induced, a pliable metal tube (A, fig. 1) is substituted for the mask by inserting its curved end into a corner of the mouth and holding the long shank to the patient's cheek. Mr. Krohne soon had our Town Traveller in the land of Nod, and when he recovered he retaliated by asking Mr. Krohne a few questions.

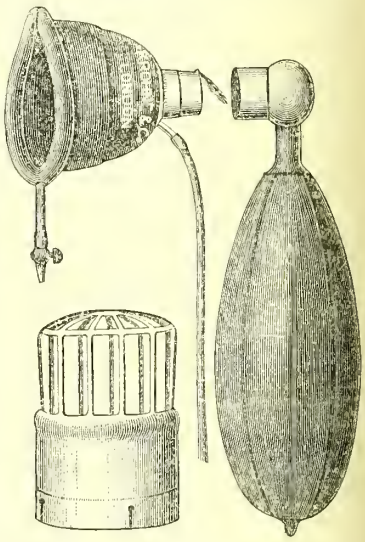


Fig. 2.

"Do you attribute many deaths to the maladministration of chloroform?" was the first one.

"Most decidedly," said Mr. Krohne. "Every year breaks the record. 1896 ended with sixty-three deaths from anæsthetics, of which four were recorded for January. 1897 has commenced with a record of six deaths from chloroform over-administration. This useless and lamentable waste of human lives is all the more remarkable as the master teachers of safe administration of chloroform, Dr. John Snow, born at York on June 15, 1813, who lived and died at 54 Frith Street, Soho, London, on June 16, 1858, and Dr. A. E. Sansom, who is still physician at the London Hospital, have shown so clearly the way in which chloroform can be administered absolutely free from risk. Both these observers arrived at the conclusion that the effects of chloroform when inhaled depend entirely on the quantity of the vapour present in the air breathed."

"Do you find medical men, dentists, and chemists appreciate your improvements?"

"I have placed over a thousand since they were introduced, and I get orders almost every day. Doctors I find the hardest people to persuade, as they object to new innovations, and are slow to move. But I feel convinced that truth will prevail."

So far not a single death from chloroform-administration has been heard of in the use of this apparatus; in fact, Mr. Krohne has tried on more than one occasion to kill animals with it, and has failed. He is so convinced of the misleading character of the Hyderabad Commission's conclusions that pecuniary considerations have become a secondary consideration to him in his determination to get anæsthetists to understand that the path of safety in chloroform-administration lies in giving the patient abundance of air, and watching the respiration rather than the pulse. Unquestionably the outcry against impure chloroform is entirely a false scent, which has retarded appreciation of the true danger of anæsthesia—want of breath.

Legal Reports.

CHEMISTS' WINE-LICENCES.

r the adjourned Surrey Quarter Sessions held at Kingston-
-Thames on April 9, before Mr. George Cave and other
agistrates, Mr. John Murison, manager of Parkes' Drug
ores, appealed against the refusal of the Kingston Borough
stices to renew a licence to sell wines at the company's
anch establishment at 35, Market Place, Kingston. Mr.
eorge Elliott appeared for the appellant, and Mr. Horace
vory and Mr. George Lynn on behalf of the justices.

Mr. Avory said the licence was to sell wines off the
remises, and it was a licence that could be refused only
n four grounds, specified in the Act, and the first of these
as that the applicant was not a person of good character
ithin the meaning of the licensing law. The licence was
rst granted in March, 1896, the applicant being a chemist
nd druggist carrying on business next door to a wine-
herchant in the Market Place, Kingston, and at that time
e applicant gave an undertaking that if the licence were
ranted he would sell only medicated wines, and no others.
He (Mr. Avory) held in his hand a list of these "medicated"
ines, amounting to between 50 and 60 in number, many
f which were quite unfamiliar to him. Before the licensing
ay of 1897, however, it came to the knowledge of the
icensing magistrates that the applicant had deliberately
roken this promise by actually selling and exposing for sale
n his shop bottles of champagne, port wine, and Burgundy,
ot of a "medicated" character. When the licence came
n for renewal the appellant was asked if he had been
elling ordinary wines, and replied that they were "invalid"
vines, and so justified his action in selling them. In view
f his former promise to sell only medicated wines the
ppellant had broken faith with the Justices, who thereupon
efused to grant the renewal on the ground that a person
vho would commit a gross breach of faith like this was
ot a person of good character within the meaning of the
Act He submitted that the action of the Justices was
erfectly right. The appellant had put in various objections,
ut the only objection left to him was that the Justices did not
djourn the application for renewal before deciding to refuse
t. As to that question, he pointed out that they offered
o re-hear the application at an adjourned hearing, which
the appellant refused, and if, as was threatened, he had gone
to the High Court for a mandamus, all the High Court
could have done was to send the case back for re-hearing,
so that he would have gained only what the Kingston Bench
offered.

The Justices having consulted, the Chairman said they
were of opinion that the proper course for the Kingston
Justices to have taken was to have adjourned the application,
and that to refuse the application without having done so
appeared to them to be wrong. They suggested that the
case should be heard on its merits. Counsel agreed to this,
and witnesses were accordingly called.

Mr. W. M. Wilkinson, clerk to the Kingston Justices,
stated that he heard Mr. Murison give a distinct promise to
sell only medicated wines. Mr. A. W. Smart, police-court
missionary, spoke to having seen champagne, port, sherry,
burgundy, and claret exposed for sale in the windows of the
defendant's shop. The bottles might have been "dummies"
for all he knew.

By Mr. Elliott: He could not see upon the labels the words
"Invalid" or "Invigorating." Mr. J. B. Walker, ex-Mayor of
Kingston, said some of the bottles of champagne were
marked "Moet."

The Chairman said the Bench were satisfied that Mr.
Murison gave an undertaking only to sell "medicated" wines,
and then broke it.

Mr. Elliott said he took it that the Kingston Bench had
no right to exact such a promise.

The Chairman: I agree with you.

Mr. Elliott said he had a large number of persons present
who could speak as to Mr. Murison's good character.

The Chairman said they considered the applicant a
person of good character, except as to this one point.
The Court had decided to allow the appeal, but without
costs.

WINE-LICENCES IN SCOTLAND.

At the sitting of the Edinburgh Licensing Court on Tuesday applications were made by the following chemists and druggists for grocers' licences, to enable them to sell medicated wines:—John James Corstorphine, for the Scottish Drug Depôt, 15 Argyll Place, Earl Grey Street, and 16 Nicolson Street; Wm. Inman, for Inman & Co. (Limited), 1 Shandwick Place, 46 Leith Street, and 1 South Clerk Street; David McLaren, 42 South Clerk Street; and James Arthur Gibson, 8 Nicolson Street, 19 South Clerk Street, and 87 Lothian Road.

Mr. Craigie, advocate, for the Scottish Drug Depôt, explained to their Honours that up to the present time druggists in Edinburgh had been in the habit of selling medicated wines under a licence obtained from the Excise authorities, but it had been found that the Act under which these licences had been granted did not apply to Scotland. Therefore the druggists of Edinburgh had come to this Court to ask for grocers' licences, in order that they might sell medicated wines. He was aware that the Act did not empower their Honours to grant licences for the sale of wine only, but only an hotel, public-house, or grocer's licence. Unfortunately for him there was this also—that under a grocer's licence he could not open his premises for business on Sundays. In these circumstances he would only ask their Honours to grant a licence for the Nicolson Street shop, and would give up the applications for Argyll Place and Earl Grey Street. At both these shops the company had a large business in prescriptions, and it would be awkward if on Sundays prescriptions could not be be supplied. The company were prepared to close their Nicolson Street shop on Sundays, as it was near their High Street shop.

Mr. John Wilson, advocate, for Inman & Co., explained that the position of his clients was somewhat different from that of his friend. Their shops had been carried on for ten years, and they obtained a licence, as given in England, under the Excise provisions. But in order to make their position secure they applied, through himself, to the Court three years ago for a grocer's licence restricted to medicated wines, but their Honours then held that an Excise licence for wine was the proper one, and they did not grant a grocer's licence. But the other month they got notice that in future they must apply at that Court for a certificate under a grocer's licence. Inmans' stores never opened on Sundays. They did not open till after eight in the morning, and they closed at eight o'clock at night. He presumed their Honours would not deprive them of the privilege which was granted almost universally in England, and which had also been granted to two or three chemists in Edinburgh—Duncan, Flockhart & Co., J. F. Macfarlan & Co., and others.

Mr. David McLaren, on his own behalf, said he kept no wines in his dispensing-shop, but in a wholesale place which was always under lock and key. His business in that department was a wholesale business. His retail sales did not average more than one or two bottles per week. He could not do without opening his chemist's premises on Sunday. But his wholesale premises were quite distinct and under lock and key.

Mr. James A. Gibson, who also appeared for himself, said opening on Sunday was a question that it was necessary to settle. If all chemists retailed medicated wines, and were compelled to close their places on Sunday, it would be impossible for any doctor to get a bottle of these medicated wines under any circumstances, whether in a prescription or not. That was a matter of public interest, and must be decided.

Baillie Gulland said the Bench was bound by the law, and could only grant a grocer's licence.

Mr. Gibson said their Honours could grant a licence for the sale of medicated wines similar to that which they held for the sale of methylated spirits, and not allow them to use it from 10 P.M. on Saturday till 8 A.M. on Monday.

The Town Clerk said he was afraid they would require to get the law altered to enable them to do that.

Mr. Gibson: In the meantime what are the doctors and the public to do?

Baillie Gulland: The law must be altered if it is for the convenience of the public.

Mr. Gibson said he only pointed that out to their Honours to get druggists and the public out of the difficulty. If they

said the premises must be closed on Sunday, he was willing to undertake that he would close.

Baillie Gulland said that must be a condition of granting.

Mr. A. J. Young presented petitions against the granting of the licences. He said he objected to chemists and druggists leaving their own legitimate business and poaching on the ground so well kept by other people.

Mr. McLaren objected that the names on the petition were not proprietors or tenants in the neighbourhood of the shops.

Mr. Craigie asked if Mr. Young appeared for the Grocers' Association.

Mr. Young refused to answer the question, and said he claimed that his petition had been received, and he had a right to speak to it. He proceeded to argue that according to the statute their Honours could only grant an hotel, public-house, or grocer's licence—not a licence for medicated wines. When the first Licensing Act was framed a certificate for a chemist and druggist was not in contemplation, and the subsequent Acts followed on the lines of the first in that respect. He believed it was matter of old history that the class of people who were now applying prevented the grocers from carrying on the business of apothecaries, and he did not think they should encourage the apothecaries to leave their own legitimate business and become wine-merchants. He further referred to an old law which gave chemists and druggists the right to supply spirituous drugs for sick, lame, and distempered persons. (Laughter.) This still stood as law. They, therefore, did not require a licence of this kind in order to enable them to follow out the prescriptions of doctors. They did not require a licence for the sale of medicated wines which appeared in the British Pharmacopœia. He did not know what more they wanted. If the wines they wanted to sell were not in the Pharmacopœia they had themselves to blame. He asked their Honours to refuse the applications.

Mr. Craigie pointed out that Mr. Young appeared for the Grocers' Association, who wanted to keep the monopoly in their own hands. He repudiated the suggestion of Mr. Young that the object of the applicants was to supply a strong "pick-me-up" on Sundays. Their object was to be put in the position of being able to sell medicated wines, which were not sold to healthy people, but to invalids.

Mr. McLaren pointed out that Mr. Young had been very ill-advised in his remarks about the British Pharmacopœia. He stated that brandy, rectified whisky, and sherry-wine, were in the Pharmacopœia, and he put it to their Honours if they could sell these without a licence. He did not know any class who poached more than grocers.

After Mr. Wilson also had replied, the Bench granted the application in each case, the condition, with the exception of Mr. McLaren, being, that the shops were to be closed on Sundays.

THE DYE-PATENT ACTION—MONNET *v.* BECK.

Judgment.

Mr. Justice Wills on Saturday gave judgment in the Queen's Bench Division in the case of Monnet *v.* Beck and others, the hearing of which recently lasted over a fortnight, a vast amount of technical and expert evidence being called. M. Prosper Monnet, the plaintiff in the action, asked for an injunction to restrain Mr. Henry Beck, merchant, London (who represents the Badische Anilin and Soda Fabrik of Ludwigshafen and the Société pour l'Industrie Chimique of Basle), and his agents in Manchester and elsewhere in this country from infringing letters patent granted to him on March 9, 1892, for the manufacture of a new dye. He also asked for an account of profits, with damages, in respect of the alleged infringement, and for the delivery of the infringed articles. It was contended for the defendants that the plaintiff's specification was bad, and his letters patent invalid, because the specification did not contain sufficient directions for the preparation of a potassium salt, or for the transformation of dimethyl-meta-amido-phthalein into a potassium salt, and also that it contained insufficient directions for the production of anisolines; and, further, that the alleged invention had been anticipated.

His Lordship, in giving judgment, said the application was in respect of new colouring-matters which might be called anisolines and bodies known as rhodamines, made by the substitution of a rhodamine salt for an alcoholic radical. Mr. Moulton, in his masterly and ingenious address (for the plaintiff), dealt with many points before approaching the question of the validity of what the specification described and claimed. The plaintiff was, in unmistakable language, claiming as a novelty in the process two things—the creation of a new salt and the substitution of an alcoholic radical for a metalline salt. He did not really see how the plaintiff could claim the right to all similar dyes, however produced, and that practically disposed of the action; for it was not alleged that the defendants in producing their dyes had infringed his particular process. The statement of the particulars of the breach made that abundantly clear, although it was alleged that the defendants' process was equivalent to that of M. Monnet's. That, however, was completely answered by the evidence of Dr. Bernthsen, and it disappeared from Mr. Moulton's reply. He thought that never had a case for infringement so utterly broken down. There could be no case for infringement unless they gave the patentee all anisolines besides his own, no matter how different the process by which they were made. At the date of the patent three classes of rhodamines were known, some of them almost useless as dyes. The claim was in too general terms, and there was nothing to limit the specification to one or two of the three classes. There were, for instance, rhodamines in which cresol took the part of phenol; but, disregarding technicalities, it was sufficient to say that the evidence of the very distinguished chemists who were called seemed to establish what he had stated. It was also clear, curious as it might seem to an outsider, that no instance in the chemical literature of the day could be found in which the dimethyl-meta-amido-phthalein was used as it was said to be used there. The specification, which was not so well drawn as it might have been, contained the whole family of rhodamines. As to whether the patent was a valid one, he said that the metalline salt, the starting-point from which it set out, was not in existence, but an impossible product, and how it was arrived at theoretically they had never been told. M. Monnet himself was not called, but it appeared that he was claiming a non-existent and impossible combination. It therefore seemed that the claim could not be a good one. Chemical reactions were as much parts of a chemical process as the putting of steam into a cylinder, or the dropping of a bar into a slot were parts of a mechanical process. It was possible that M. Monnet thought he had made a discovery; but he was claiming an impossible process, and if the specification did not describe the real process, then he was claiming on a process which he had not described. It was clear, therefore, that the patent was invalid. As a person not deeply versed in organic chemistry, he admitted that he was in some difficulty. Mr. Moulton, who was evidently a good chemist, stated that he and his learned friend (Mr. Bousfield) had had three or four weeks' instruction before they came into court, and even then they found it very hard work. He had been almost overwhelmed with technicalities, and a battle royal had raged over technical terms, which he had tried to quash, and had thought he had quashed, but only to lose them over and over again. There had been a lot of contradictory evidence given, he was sure in good faith, by the learned chemists called upon both sides, and he was perfectly certain that the defendants' witnesses had done their best to make the process work. None of them could obtain what was said in the specification would be the result of the process as described. M. Monnet's evidence would have been acceptable had he been called. Although his patent was five years old there was no evidence that an ounce of anisoline made by his process had ever been placed in the market. Evidence that it had been used commercially would have been much more valuable than the evidence of chemists who had produced a few grains in test-tubes. If he were to draw conclusions from the evidence as it stood he should say that the success or failure of the process probably depended upon some very subtle conditions not appreciated or discovered, and not pointed out in the specification—a conclusion which would not surprise anyone who had listened for a fortnight to a case of such complexity. Ingenuity, learning, and skill had been lavished on the case to no purpose, and he might leave that question undecided. He gave judgment for defendants, and directed that the costs should be taxed as if they had succeeded upon everything.

THE PHARMACY ACT.

Action at Nottingham.

T the Nottingham County Court on Monday, before Judge asterman, the Pharmaceutical Society sued Frederick illiam Hooker to recover a penalty of 5*l.* under the Phar-acy Act, 1868. Mr. T. R. Grey appeared for the Society, id defendant was represented by Mr. W. B. Smith, of Not-ngham. Arthur Foulds, inquiry agent, of Manchester, gave idence that on November 20 last, on instructions om the Pharmaceutical Society, he went to the shop, No. 1 eck Street, Nottingham, there being over the entrance the ame of Dr. Whitgreave. The only person in the shop was e defendant, who supplied witness with a mixture of one ennyworth each of mint, aniseed, paregoric, and laudanum, ese being mixed and put into a small bottle, which witness ow produced just as it was given to him. During the short me witness was in the shop there was an inquiry for the octor, defendant answering that he was then away attending case. The poisonous nature of the contents of the ottle was admitted. In answer to Mr. Smith, Mr. Foulds id he was employed by the Society to make such purchases, that where there was an infringement of the Act it might e detected.

Mr. Smith, for the defence, observed that he did not know hether his Honour had power to mitigate the penalty, but, he had, he would ask his Honour to reduce it to as low a um as he could. If, on the other hand, he had no power to ake any reduction, he must request that defendant be llowed to pay the amount in small instalments. Mr. Smith ointed out that though the offence occurred in November, he summons was not taken out till February. After com-enting upon this, he said evidence was obtained for the urpose of trapping men and bringing an action against hem. So long a time elapsed before any action was taken y the Society that Dr. Whitgreave was quite unable to go nto the box and say whether or not such a mixture was sold n the day in question.

His Honour was of opinion that the Pharmaceutical Society were in no way to blame, and were perfectly justified n the action they had taken. The doctor knew that he ran risk, and that he placed his assistant under a risk of coming nder the Act if he left him with power to deal with poisons. Even if he had power to reduce the penalty he saw no reason or doing so, but he was strongly of opinion that it had been ecided he could not mitigate it, even if he desired to take hat course. He therefore gave a verdict for the full penalty f 5*l.*

POISONED GRAIN.

At the Rugby Petty Sessions last week, John Smith, farmer, Bilton Hill, was summoned by the police for casting grain which had been steeped in poison, and calculated to destroy life, in certain of his fields between March 1 and 23. Some rooks, pigeons, larks, and other birds were found dead in the defendant's field, but it was denied that there was a public footpath over the field. John T. Fleet, chemist, Sheep Street, Rugby, said he had made an analysis of the contents of the stomachs of the two rooks, and found traces of strychnine. He had sold strychnine in powder form to defendant, both in December last and also in March. Defendant said he wanted the poison for destroying vermin, and on it being supplied to him he signed the poison-register. In defence, Mr. Prior said the fourth section of the Act under which the proceedings were taken provided that any person might use a solution or infusion for *bonâ-fide* agricultural-purposes whether it destroyed life or not. Defendant admitted buying the poison; he made a solution of it, and dressed the corn. Mr. Prior submitted that the prosecution could not succeed, because the poison was used for a *bonâ-fide* agricultural-purpose—viz., that of killing wire-worm. The Chairman said the Magistrates were quite clear there had been an infraction of the Act. As it was the first case of the kind brought before them they would take a lenient view, and defendant would have to pay 1*l.* and the costs, 3*l.* 0*s.* 6*d.* If any other cases of a similar nature were brought forward where poison was used in this reckless manner, the offenders would be dealt with more severely. The full penalty was 10*l.*

SALE OF FOOD AND DRUGS ACT.

Tincture of Rhubarb.

At East Dereham Petty Sessions on April 10, Messrs. Lakeman & Maclachlan, chemists and druggists, of East Dereham, were summoned for selling tincture of rhubarb, which Mr. Sutton, county analyst, certified was devoid of saffron; also that the spirit was 29 under proof. Mr. Maclachlan said they took the article over with the business from the executors of the late Mr. William Smith, and did not know but what it was all right. A fine of 20*s.* was imposed, with costs 10*s.*

HOLE *v.* THE CHEMISTS' ASSOCIATION (LIMITED).

In the Chancery Division on April 10, before Mr. Justice North, Mr. Jenkins mentioned the case of Hole *v.* The Chemists' Association (Limited), which came on for judgment in default. This was, he said, a second debenture-holders' action. The Association, in August, 1892, issued 360 debentures of 50*l.* each, carrying interest at 5 per cent. They contained a general charge on the whole of the undertaking, and they were further secured by a trust deed dated August 12, 1892. The company was now in liquidation under supervision, so there was no question as to the debentures having become due. His Lordship made the usual order, with directions as to inquiry, &c.

THE TRITICUMINA LITIGATION.

In the Chancery Division of the High Court, on April 9, Mr. Swinfen Eady, Q.C., applied on behalf of the defendants in the case of Mealy & Co. *v.* Triticine (Limited) for an order of committal against two men named Rae and Hindley in respect of conduct alleged to be prejudicial to the trial of the action, which was to restrain the defendant company from using the word "Triticine" in connection with their goods or in any manner calculated to deceive. There was a cross-motion by which the defendants sought to rectify the register of trade-marks by removing therefrom the word "Triticumina," which was the plaintiffs' trade-mark. The present motion was based on the allegation that the two respondents, as agents for the plaintiffs, used threats towards two small shopkeepers at Castleford, Yorkshire, with the view of inducing them to make statements contrary to evidence which they had filed on behalf of the defendants. His Lordship, after hearing evidence, came to the conclusion that the facts did not warrant his sending the men to prison, but what they had done, he said, was very improper, and in dismissing the motion, therefore, he should do so without costs.

ILLEGAL STORAGE OF NAPHTHA.

Arising out of the recent fatal explosion of naphtha at Halifax, Thos. Hy. Scott was on Monday summoned for a breach of the Petroleum Act by having kept a quantity of naphtha on his premises without having a licence. The Chief Constable stated that under the Act defendant was liable to a fine of 20*l.* for each day the naphtha was on his premises. Defendant, who used the naphtha for the manufacture of varnish, said he was ignorant of the law. The Bench, considering that defendant had lost two children by the accident, imposed a nominal penalty of 2*s.* 6*d.*, and instead of confiscating the spirit recovered ordered defendant to return it to the consignor.

TRIMMER *v.* THE FRAME FOOD COMPANY (LIMITED).

The Frame Food Company (Limited) ask us to state that in the case reported in our last issue they were only nominally defendants, as the matter was in the hands of the company with whom they had insured their liability. They add that the statement that both the plaintiff's hands were crushed is incorrect, only the left hand was injured; and so far from the injuries being of a "serious and permanent character" the plaintiff is now at work in their factory, and obtaining the same wages as before the accident.

New Companies and Company News.

Midland Chemical-works (Limited).—Capital 3,000*l.* To acquire the business of a chemical-manufacturer and artificial-manure manufacturer carried on by James P. Griffiths, at Red Hill, Dudley.

Sutcliffe & Bingham (Limited).—Capital 10,000*l.* To aequire the business of manufacturers of grocers' and chemists' specialities carried on by Sutcliffe & Bingham, at the Khovah Works, Ogden Street, Cornbrook, Manchester.

Reeves' Chemical Sanitation (Limited).— Capital 50,000*l.*, in 1*l.* shares. Objects: To acquire certain British letters patent and a French patent granted to R. Harris Reeves, and to manufacture, sell, and deal in all kinds of chemicals and raw materials, machinery, engines, plant, and apparatus required for use with the said inventions.

Homocea (Limited).—Capital 250,000*l.*, in 1*l.* shares (of which 125,000 are 6*l.* per cent. cumulative preference). Objects: to enter into an agreement with the Homocea Company (Limited), incorporated in 1895, for the acquisition of its business, and to carry on the business of chemists, druggists, drysalters, oil and colour men, and makers of, and dealers in, proprietary articles of all kinds. The first directors (to number not fewer than three nor more than seven) are to be nominated as follows: five by the subscribers, and two by General Barwell. Qualification, 250*l.* Remuneration, 250*l.* each per annum, 350*l.* for the chairman, and a percentage of the profits.

Saccharin Corporation (Limited).—Capital 200,000*l.*, in 10*l.* shares. Objects: To acquire and amalgamate certain rights, properties, and interests of Wilson, Salamon & Co. (Limited) and the Société Chimique des Usines du Rhone, to enter into agreements with those companies, and with John W. Wilson and others (with a view to their acting as managing directors), and with Robert W. Greeff (with a view to his acting as agent and managing director), and to buy, sell, import, export, and deal in saccharin of every kind. The first directors (to number eight) are Malcolm Laing (chairman), Robert W. Greeff, Richard M. Harvey, John J. Jonas, Gustav A. Pertsch, A. Gordon Salamon, Lord Westbury, and John W. Wilson. Qualification, 500*l.* Remuneration, as the company may decide.

J. C. Eno (Limited).—Capital 100,000*l.*, in 10*l.* shares. Objects: To acquire and take over as a going concern the business carried on under the style or firm of "J. C. Eno," at Pomeroy Street, and Kender Street, Hatcham, S.E., to enter into an agreement with James C. Eno to manufacture, sell, and deal in Eno's fruit-salt, and to carry on the business of manufacturing and general chemists and druggists, drysalters, &c. The first subscribers (each with one share) are:—J. C. Eno, manufacturing chemist, Robert Jackson, manager, Geo. Heslop, chemist, and J. W. Richardson, clerk —all of Pomeroy Street, New Cross Road, S.E.; Mrs. J. C. Eno, Wood Hall, Dulwich; Mrs. M. A. S. Brown, Swinfen Hall, Lichfield; Mrs. H. W. Swithinbank, Denham Court, Uxbridge; Thos. Thornber, 4 Grandison Road, Clapham Common, S.W., clerk. The first directors are James C. Eno (who is the governing director) and Robert Jackson. Remuneration, as the company may decide.

Messrs. Moise & Marshall (Limited) have formally resolved to change the title of their company to that of B. F. Moise (Limited).

It is reported that Mr. Brent Good, of the Carter Medicine Company, has extended the option of the Hooley syndicate to purchase the Carter liver-pills business until July 1. If they do not come to terms by that time Mr. Good pockets the deposit-money.

Barclay & Sons (Limited).—The first annual general meeting of the new company was held at the Memorial Hall, Farringdon Street, E.C., on Wednesday. The chair was taken by Mr. Horace Davenport, who was supported by his co-directors, Messrs. G. R. Barclay, A. E. Barclay, and R. H. Groves. There were about twenty shareholders present. The Chairman moved the adoption of the report and balance-sheet. Having explained the circumstances under which the new company had been formed to take over the business of the old company, he said he thought this report would be regarded as a decidedly satisfactory one, and one which gave every hope for the future. The sales were keeping up to the figures of a year or two ago, and it was evident that the business was a sound one. He had stated a year or two ago that they had given up a certain amount of business because it was not profitable. That of course reduced sales, but it did not reduce profits. Now sales had again increased. He had every confidence in the future of the company. In response to a circular sent to chemists a large number had taken up shares. This would tend to increase the business. He moved the motion which he had read, and that dividends of 5½ per cent. be paid on the preference and 5 per cent. on the ordinary shares of the company. Mr. Powell (London) seconded the motion, which was unanimously adopted. Mr. Barstow (London) proposed the re-election of Mr. Richard Harry Groves as a director, and this was seconded by Mr. F. Hickman (Newbury) and carried.

German Chemical Dividends.—The net profit of the Farbenfabriken, vorm. Friedr. Bayer & Co., of Elberfeld, for 1896 has been 2,929,000m. against 2,860,000m. in 1895. The dividend on ordinary shares is to be 18 per cent., as in 1895.—The directors of the Chemische Fabrik "Askania" at Leopoldshall propose a dividend of 8½ per cent. for 1896, against 6 per cent. for 1895.—The dividend for 1896 of the Farbwerk, formerly A. Leonhardt & Co., at Mühlheim-on-Main, will be 10 per cent., which is the same as in 1895.—The net profit of the Chemische Fabrik Oranienburg for 1896 has been 156,139m. against 141,805m. in 1895. The dividend, however, will only be 9 per cent., against 12 per cent. in 1895.—The directors of the North-German India rubber and Guttapercha Works, formerly Forrobert and Reimann, will pay a dividend of 7½ per cent., against 6¼ per cent. for 1895. The glass-bottle factory, formerly Ferd. Heyn, at Gerresheim, reports that trade last year was a fairly good one, the home-demand, especially in the spring and the summer, having been considerable. On the other hand, large export orders were fewer than usual. The prices of the goods made by the factory were well maintained, and in some instances higher. Nevertheless, they have been cut down by competition, so that there is very little profit. Raw materials, especially coal and alkali, are constantly advancing in price, and it is only a question of time that the German glass-bottle factories will be compelled to come to an agreement for an increase in their quotations. The output of bottles exceeded that of 1895 by 7½ millions and that of 1894 by 9·1 millions, although the plant was the same in all three years. The total quantity of bottles delivered in 1896 amounted to 66,075,527, at an aggregate invoice price of 4,344,982m. This leaves a gross profit of 748,203m., which will allow the payment of a dividend of 8½ per cent. on the ordinary shares.—The union of chemical-factories at Mannheim made in 1896 a net profit of 700,000m., against 632,311m. in 1895. The dividend will be 8 per cent.—The net profits of the Chemische Fabrik Petschow Davidsohn, in Dantzic, amount to 95,605m. for 1896, against 92,034m. in 1895. A dividend of 5 per cent. will be paid on ordinary shares.

Trade-Marks Applied for.

(*From the "Trade Marks Journal," March* 31, 1897.)

"Fango," and representation of hand with forceps drawing fangs from reptile; for chemical substances prepared for use in medicine and pharmacy. By Raimes & Co., Ebor Works, Stockton-on-Tees, merchants. 201,250. Essential particular: The device.

"Caktine"; for an anti-fouling composition for preventing scale in steam-boilers. By the Clydesdale Chemical Company, Glasgow. 201,763.

"Zotal"; for a disinfectant. By Thomas Farries, trading as Burgoyne, Burbidges & Co., 16 Coleman Street, London, E.C. 201,929.

"Sa-yo"; for medicated jujubes. By Wallace & Co. 166 Monroe Street, New York, U.S.A. 201,665.

"Emalin"; for chemical substances prepared for use in medicine and pharmacy. By F. W. Klever, Brandenburgerstrasse 6, Cologne, chemical manufacturer. 200,568.

"Perloids"; for medicines for human use. By L. T. Ashwell, 74 New Bond Street, London, W., chemist and druggist. 201,833.

"Cekoo"; for a chemical substance used in medicine and pharmacy. By Betsy Cooke, 154 Guide Lane, Hooley Hill, near Manchester, herbalist. 202,140.

Circular device containing name of applicants and sketch of men wrestling; for beef-juice extract. By the Esco Beef-juice Company (Limited), 120 Colmore Row, Birmingham. 201,855.

"Rodnim"; for food for dogs and other animals. By Spratt's Patent (Limited), 1 Henry Street, Bermondsey, London, S.E. 202,057.

"Osoosoo"; for compressed-tea tablets. By R. Farrington, trading as the "Osoosoo" Tea Company, 194 Brooke Road, Clapton, London, N.E. 202,634.

"Rolkene"; for mineral and aërated waters. By Elliott & Howell, 20 Sidney Street, Sheffield, manufacturing chemists. 202,600.

Facsimile signature of applicant, with wording on scroll, &c.; for an aërated water. By S. Birch & Co., 6–8 Howard Street, Belfast. 202,161. Essential particular: Written signature, "S. Birch & Co."

"Lode Star Brand" being wording in starry outer circle, and picturesque sketch of colonials in typical dress standing beside well, contained in inner circle; for instruments, apparatus, and contrivances, not medicated, for surgical or curative purposes, or in relation to the health of men or animals, but not including artificial eyes, and not including any goods of a like kind to artificial eyes. By Bryce & Co., 23 St. Mary Axe, London, E.C., wholesale and export druggists, 200,992. Essential particulars: The combination of devices and the words "Lode Star."

Personalities.

Mr. Samuel W. Fairchild, of Fairchild Brothers & Foster, New York, and his family are spending the spring on the Mediterranean seaboard.

Mr. W. Wilson, 281 Brixton Road, S.E., has been appointed Pharmaceutical divisional secretary for Brixton, not Mr. W. Smith as was stated last week.

Mr. Edward J. Dane, who formerly represented Mr. Kühn for papain, &c., is now travelling for the Distillers' Company (Limited), to introduce their "D.C.L." malt-extract.

Dr. Hobart A. Hare, Professor of Therapeutics and Materia Medica in the Jefferson Medical College, Philadelphia, is to act as consulting therapeutist for Messrs. Parke, Davis & Co., of Detroit and London.

Mr. William Bousfield, of Hull, manager of the late Mr. T. J. Smith's business, has been appointed assistant secretary to the Jameson Scholarship Trust, of which Mr. Smith was for many years honorary secretary

Alderman Palmer, chemist and druggist, Grimsby, has been appointed a county justice for the Lindsey division. He has been a borough magistrate for the past twenty years. His son and partner, Mr. Tom C. Palmer, has been made a borough magistrate.

There is a chance of Sir Henry Roscoe, F.R.S., the chemist, entering Parliament again, as it is expected that the Marquis of Lorne will resign his seat for South Manchester about the Jubilee period, and Sir Henry will be the Liberal candidate for the vacancy.

The installation of Mr. Michael Carteighe as W.M. of the Galen Lodge (No. 2,394) of Freemasons on Monday was followed by a banquet of almost regal splendour in the Freemasons' Tavern. The music was by Signorina Vittoria Orlarti, Signor G. Maggi, and Bocchi's Royal Drawing Room Sextett. Amongst those present, exclusive of the officers of the lodge, were Brothers R. E. Robinson, L.C.C., Judd, Elliot, Feldon, Manners, &c Brother Alderman Vaughan Morgan, who had arranged to instal the worshipful master into his new office, was prevented by illness from being present.

The *Cornish Post* prints an interesting sketch of the life of the late Professor Robert Peter, M.D., who was born in Cornwall in 1805, and went out to Pittsburg, Pa., U.S.A., when he was 16. There he entered the drug-trade, and became exceptionally interested in chemistry and the physical sciences generally, so that he gradually gave up retail pharmacy; and in 1830 he became Professor of Chemistry in the Western University of Pennsylvania. In 1832 he moved to Lexington, Kentucky, to fill the chair of chemistry in Morrison College. While there he took the degree of Doctor of Medicine in Transylvania University, and a few years later he became its professor of chemistry. In 1850 he was appointed to the same position in the Kentucky School of Medicine. In a few years, however, he moved back to Lexington, and rejoined the old university, and after the war took the chair of chemistry in the Agricultural and Mechanical College, labouring with unabated zeal until the end of his long life of 89 years. In his day he was regarded as one of America's leading scientists.

Deed of Arrangement.

Taylor, Henry, 15 Robin Hood Street, Nottingham, grocer and druggist, Trustee, Thomas G. Mellors, King John's Chambers, Nottingham, chartered accountant. Dated April 1; filed April 6. Secured creditors, 1,023*l.*; unsecured liabilities, 476*l.* 9*s.* 7*d.*; estimated net assets, 778*l.* 0*s.* 9*d.*

	£	s.	d.
Buckton, G. & Sons, Hull	24	0	0
Clarke, R. J., Leicester	26	0	0
Colman, J. & J., London	18	0	0
Curteis, Whitworth & Co., London	25	0	0
Dee Oil Company (Limited), Chester	11	0	0
Duckworth, A., Birmingham	13	0	0
Gill & Bibbey, Nottingham	18	0	0
Hallsworth, Sarah (Exors. of), Mansfield	20	0	0
Herbert, G. (Limited), Glasgow	10	0	0
Hodgson & Simpson, Wakefield	26	0	0
Langton, Edden & Co., London	13	0	0
Mutch, Dr. F. R., Nottingham	13	0	0
Naylor, Wilson & Co., Liverpool	16	0	0
Taylor Bros. (Limited), London	12	0	0
Twining R. Co., London	21	0	0
Victoria Vinegar Brewery Company (Limited), Sheffield	13	0	0
Williamson, Clondesley & Co., London	22	0	0

Gazette.

PARTNERSHIPS DISSOLVED.

Briggs, J., and **Smith, R. N.**, under the style of Briggs & Co., Leeds, chemists, druggists, and tobacconists.

Hartzhorne, B. F., and **Steegmann, E. J.**, under the style of Hartzhorne & Steegmann, Chiswick, medical practitioners.

Upton, E. J., and **Reynolds, A. B.**, under the style of Upton & Reynolds, Wallingford, chemists and druggists and wine-merchants.

Wheatley, A. B., and **Cowling, D.**, under the style of Wheatley & Cowling, Pontefract, liquorice-refiners.

THE BANKRUPTCY ACTS, 1833 AND 1890.

Receiving Order.

Balchin, Edward Samuel, Gosport, chemist.

Orders made on Applications for Discharge.

Claremont, Constantine Cecil, Norwich, surgeon—discharge suspended for two years ending March 17, 1899.

Gibbs, Stephen, Herne Bay, veterinary surgeon and blacksmith—discharge granted.

Trade Reports.

42 CANNON STREET, E.C., *April* 14.

THERE are few noteworthy changes to report this week in the drug and chemical trades. In fact, very little business has been transacted at all, nor is there any chance of an improvement until the beginning of next month. In fine chemicals the principal alteration that we have to report is a heavy decline in sulphonal. Saccharin is not unlikely to be firmer in consequence of the combination that has just been formed among the makers. Quinine firm, but without much business. Tartaric acid rather firmer; citric acid quiet. There has been a sudden and not unimportant advance in cream of tartar. Heavy chemicals are mostly unchanged. Permanganate of potash is extremely firm and scarce. Chlorate weak in second-hand. In soda-salts there are few alterations, but soda-crystals are firmer, and tending upward. Sulphate of copper not quite so firm. Glycerin unaltered. Carbolic acid firm, with an upward tendency. The drug-market shows few changes. Gum acacia dull. Castor oil a trifle firmer. There has been a considerable arrival of asafœtida. Balsam copaiba is steadily held. Ordinary and medium Sumatra benzoin plentiful. Calumba-root is tending higher, while the camphor-market has been quiet, with lower quotations for Japanese. The cinchona-auctions on Tuesday went off with much spirit at higher rates. Ergot of rye rather quiet. There has just been an arrival of gum kino. Essential oils generally quiet. Star-anise and cassia oils dull of sale. Oils of citronella and lemongrass firm. Cajuput oil is scarce. Caraway oil easier. Ylang-ylang extremely firm, and geranium oil tending somewhat lower. Persian opium very firm; Turkish neglected. Rhubarb steady. Orris-root still has a declining tendency. Cod-liver oil is very sluggish, and quillaia-bark dearer. In outside markets there are very few changes. Shellac shows rather more animation this week, and turmeric is very firmly held. In spices, cassia lignea is firm. Zanzibar cloves, after a good deal of fluctuation, are tending downwards. Peppers are steady, and there has been a considerable business at rising prices in Cochin ginger. At to-day's auctions Jamaica ginger sold at an advance of from 1*s.* to 2*s.* on common qualities. Pimento is easier.

Australian Platinum.

It is stated that the New South Wales Department of Mines has been in communication with Mr. H. E. Baudell, of Frankfort-on-Main, with respect to the platinum discoveries in the Parkes and Condobolin districts, with a view to opening up a trade in the mineral. Mr. Baudell has written to say that at 28*s.* per oz. platinum could be imported into Germany and sold at a fair profit. This appears to be in reply to the Government inquiry as to the price obtainable in Germany for crude ore containing 75 per cent. pure metal. Why should not the N. S. Wales Government sell its platinum in England? There are plenty of buyers here who would give quite as good a price as Herr Baudell, and if the N.S.W. Department of Mines wishes to be placed in communication with them we shall be glad to supply the names. Considering that the price offered by Herr Baudell to the N.S.W. Government is about half of that at which platinum is quoted in wholesale lists, we have no doubt that the transaction would be a profitable one—for Herr Baudell.

A Saccharin Combine.

Under "New Companies" (p. 640) there is an announcement of the formation of the Saccharin Corporation (Limited), formed to amalgamate "certain rights, properties, and interests" of the firms of Wilson, Salamon & Co. (Limited), and the Société Chimique des Usines du Rhône. We may state, in explanation of that announcement, that all disputes at law between the firms of Wilson, Salamon & Co. and R. W. Greeff & Co. have been settled. The new company (which will be carried on from the offices and with the organisation of Messrs. Wilson, Salamon & Co.) will include among its directors representatives of that firm, as well as of the Lyons works and the London house of R. W. Greeff & Co. The interests of the Farbenfabriken (Bayer & Co.), of Elberfeld, the makers of "Sycose," of the firm of Von Heyden ("Zuckerin"), and of the Swiss saccharin-makers will also be represented in the new company. No definite settlement has yet, we understand, been made with regard to the future price of saccharin, but it is not intended to advance the quotations unduly. But the exceptionally low cutting-prices at which some firms have lately been selling saccharin, or its chemical homologues, will no doubt be revoked. There are now, we believe, no "outside" makers left of saccharin or articles chemically identical with it.

The Foreigner and our Patent Law.

Sir Courtenay Boyle, Permanent Secretary to the Board of Trade, received, on April 8, a deputation of prominent British manufacturers, mostly from Lancashire, who had come to represent to him that great injury is inflicted upon British commerce by the ineffective character of the Patent and Trade-marks Act of 1883, especially that part of it (section 22) which enables foreigners to take out a patent in the United Kingdom for an invention for which patent-rights have been refused them in their own country, or for one which is never worked in Britain at all. In almost every State, except Britain, the granting of patent-rights is subject to the condition that the object patented shall be manufactured in the country within a certain time. But in this country the Board of Trade have, nominally, the power to grant licences to work a patent if the patentee "unreasonably" refuses such a licence. During the fourteen years' existence of our Patents Law, however, only four applications for such licences have been made, and not one has been granted, the fact being that the Board of Trade considers itself prevented from exercising its power unless the patentee absolutely refuses a licence. So long as he stops just short of a direct refusal, he may go on without hindrance making his patented article abroad, and dumping it down here in the finished state. This the deputation want remedied, either by a short Act of Parliament or by action by the Board of Trade. Mr. Ivan Levinstein, who was a member of the deputation, said that between 1891 and 1895 no fewer than 600 patents were granted in this country to foreigners, and in not a single instance of all the number were the goods patented made in this country. Sir Courtenay Boyle could not hold out much hope of alteration in this state of things. There would be no time this Session to pass such an Act as the deputation asked for, he said.

Shanghai Croton-seed.

At the last drug-sales there was shown a sample of croton-seeds from Shanghai, which failed to find a buyer, presumably on account of the difference in appearance from the usual Ceylon seeds. The sample in question was of a dirty dark brown colour, partly covered with a lighter brown scale-like covering. When cracked the seeds were found to be white, but showed some tendency to shrivelling, indicating a want of freshness. Considering that the *Croton Tiglium*, which furnishes the croton-seeds of commerce, has such a wide distribution from China and the Malay Islands to Malacca, Burma, Bengal, Assam, and Ceylon, it is surprising that regular supplies from most of these countries do not find their way to the London market. The seeds, however, are sometimes imported into India from China, *viâ* Singapore. They are regarded by the Chinese as extremely poisonous, and Porter Smith says, "A single decorticated seed was formerly prescribed in dysentery and diarrhœa as a revulsive remedy" by the Chinese. The seeds in question were quite genuine.

Hamburg Telegram.

Our Hamburg correspondent telegraphs on Wednesday afternoon that *Refined camphor* is unaltered at 2.90m. per kilo. for bells. *Kola nuts* are very quiet. *Cassia lignea* has become quieter, at 77m. per 100 kilos.

Bergen Telegram.

Our Bergen correspondent telegraphs on Wednesday evening that favourable weather is prevailing in the fishing district. The Lofoten season is now finished, and the catch at Finnmarken is as yet unimportant. The total catch of fish this season is 2,772,000, against 33,427,000 at the corresponding period of last year, the output of steam-refined oil being 23,400 barrels, against 12,730. The market remains dull, 70*s.* per barrel, f.o.b., being quoted for finest non-congealing 1897 oil.

Acacia.—Since last Thursday's auctions several parcels of East Indian gum have changed hands: small pale, partly reddish mixed Kuraehee-Amrad at 52*s.* 6*d.* per cwt. *Persian* gum continues to sell readily at 20*s.* per cwt. for good reddish and pale mixed, which is a full price. Soudan gum is in large supply, sorts being practically unsaleable, except at very low prices. Good hard quality offers at 60*s.* per cwt., and for fine soft pale 80*s.* per cwt. is nominally asked. *Gehzirah* gum is out of stock at present. The exports of gum acaeia from Suakin (writes Consul Harry H. Lamb) were only 15,731 cwt. in 1896, against 38,000 cwt. in 1895. There was a good deal of speculation in gum when the Dongola Expedition was commenced, but this gradually subsided. On September 18 Government prohibited the importation of all Soudan produce into Suakin. Up to that time, 2,750 cwt. of gum had arrived in the town since May 1. Caravans continued to start from Berber after the prohibition of trade with the Soudan, but, not being allowed to approach Suakin, they had to deposit their gum at Kokreb and other places on the road. In November the military authorities allowed this gum to be brought into Suakin and deposited in the Government stores; and in December and January about 650 tons (3,000 camel-loads) were thus brought in. The Government have now decided to allow two-thirds of the entire amount stored to be exported. Further large quantities are known to be on the way from Berber, but it is uncertain whether they will be admitted into Suakin.

Acid (Citric).—Slow of sale, with a somewhat easier tendency; 12½*d.* to 12¾*d.* will buy on the spot. *Concentrated Juice* is still quoted at 11*l.* 15*s.* per pipe, f.o.b.

Acid (Tartaric).—Firmly held at 1*s.* 1*d.* for English B.P. from the makers, and 12¼*d.* per lb. for foreign brands on the spot.

Asafœtida.—The *Persepolis* has brought 257 cases from Bombay this week. The demand in London has lately fallen off for all kinds except stony quality, which is sold at 40*s.*

Balsam (Copaiba).—The price asked in London for fine Maranham balsam is 2*s.* 4*d.* per lb. There has just been another small arrival of 2 casks.

Benzoin.—Fine Sumatra qualities are scarce and wanted, but medium and ordinary grades are plentiful enough. Two consignments, totalling 284 packages, have arrived this week from Singapore and Penang.

Bleaching-powder.—Steady at 7*l.* 5*s.* per ton on the spot; Liverpool, 6*l.* 5*s.* to 6*l.* 10*s.* f.o.b.; and softwood casks on rails, 6*l.* 10*s.* f.o.b. Tyne.

Buchu.—There has been an arrival this week of 13 bales by the *Avondale Castle* from Cape Town.

Calumba-root.—Tending higher. For a parcel of ordinary sorts 21*s.* per cwt. has been paid, and it is doubtful whether anything can now be had below that price. For fair to fine bright washed root the price runs from 30*s.* to 60*s.* per cwt.

Camphor (Crude).—No business of any consequence is reported this week. The market generally is firm so far as *Formosa* camphor is concerned. The quotations for this variety vary, according to holder and position, from 97*s.* 6*d.* to 101*s.* per cwt. c.i.f. *Japanese* camphor, however, offers at lower rates, viz., 102*s.* 6*d.* per cwt. c.i.f., and it is said that 100 piculs have been sold at that figure, while there are further sellers at the same price. From Japan, however, cable quotations ask as much as 106*s.* per cwt. c.i.f.

Cantharides.—Chinese flies are firmly held. There are buyers, but no sellers, at 1*s.* per lb.

Cinchona.—The supplies offered at the monthly auctions on Tuesday were small, the total amounting to

	Packages		Packages	
East Indian	723	of which	541	were sold
Ceylon	165	„	4	„
West African	243	„	212	„
Javan	100	„	93	„
South American ..	397	„	—	„
	1,628		850	

A very animated tone prevailed throughout the auctions for first-hand parcels, especially those of recent arrival, but old and second-hand lots were neglected. This accounts for the fact that nearly one-half of the supply was bought in at auction, although a good deal was afterwards sold. The unit-price showed a small advance on the preceding sale and averaged ¾*d.* per lb. Some parcels only realised $\frac{11}{16}$*d.* per lb., but rich lots readily fetched a penny-unit, a few even exceeded it.

The following prices were paid:—

Ceylon and E. Indian Cinchona.—*Succirubra*: natural stem chips, rather dusty, 1*d.*; renewed chips and shavings, fair quality, 2*d.*; good to fine quilly ditto. 3*d.* to 4½*d.* per lb. *Ledgeriana*: natural branch chips, 2*d.* to 2½*d.*; fair to good stem chips and shavings, 2¼*d.* to 3½*d.* per lb. *Officinalis*: natural common to fine bright stem chips and shavings, 1¾*d.* to 3¾*d.*; fine rich renewed ditto, 4*d.* to 5⅛*d.* per lb. Fine bold silvery *Hybrid* quill realised 7¾*d.* per lb.

West African Cinchona.—*Succirubra*, fair chips, 2½*d.*; good partly broken quill, 3⅛*d.* to 3¼*d.* per lb.

Javan Cinchona.—Natural *Ledgeriana* branch and chips, 4½*d.* per lb.

South American Cinchona.—Of cultivated Bolivian *Calisaya*, 146 bales were bought in at auction at 1*s.* per lb. for fine bold silvery quill, and 10*d.* per lb. for flat orange bark. One or two lots of the quill bark have been sold since the auctions at 9*d.* per lb. Forty bales bold flat bright *Cartagena* bark, mixed with quill, were bought in at 6*d.* per lb. A parcel of 211 bales *Soft Colombian*, of old import, was bought in at the auctions at 2*d.* per lb., but it is stated that it has been sold since the auctions to a German quinine-maker at from 1⅞*d.* to 2*d.* per lb. It was decided to hold the next cinchona-sales on June 29.

Copper (Sulphate).—About 5*s.* easier in London, 17*l.* per ton being the quotation for fair quality. Liverpool, however, remains steady at 17*l.* 15*s.* to 18*l.* per ton, f.o.b.

Cream of Tartar.—Has considerably advanced, and closes with a firm and rising tendency. There is but little offering at present, and the expectations are that, as the summer approaches, higher rates will rule. Best white *French crystals* are quoted to-day on the spot at 80*s.* to 81*s.* per cwt.; for arrival, 78*s.* to 79*s.* per cwt., f.o.b. Bordeaux (net). *Powder*, 82*s.* to 83*s.* per cwt. on the spot.

Cuttlefish.—Fair dull mixed, partly broken, *East Indian* quality, is worth 3¾*d.* per lb. on the spot.

Ergot of Rye.—A quiet market. Fair to slightly wormy *Russian* ergot offers at 5¾*d.*, and for wormy *Spanish* (there is practically no sound of this variety) 6½*d.* per lb. is asked on the spot.

Galls.—*Chinese* are very quiet at 64*s.* per cwt. on the spot, and 59*s.*, c.i.f., for arrival. Blue *Persian* galls have sold at 50*s.* per cwt.

Gum Chicle (Chewing-gum).—There has been an advance in this in consequence of the imposition of a duty on the article in the United States, which is the chief consumer. The American buyers are, therefore, purchasing whatever they can lay their hands on. At present 1*s.* 4*d.* is quoted in London, but there is little, if anything, available at this moment. The advance, however, does not seem likely to last long.

Insect-flowers are reported in fairly good demand, and the *Trieste* market remains as firm as ever. Closed flowers are quoted here at from 134*s.* to 160*s.* per cwt., according to quality; fair open flowers at about 100*s.* per cwt., on the spot.

Ipecacuanha.—A few sales of *Brazilian* and *Colombian* root have been made at steady prices.

Kino.—Fine *Cochin* kino has been practically unobtainable for some time, the nominal quotation having been 13*s.* to 14*s.* per lb. The *Australia* has just brought 5 cases from Bombay, but it is not yet known what the quality is.

Lobelia-herb still continues to advance, 7¼*d.* to 7½*d.* per lb. being now quoted on the spot for pressed herb in packets, and 6*d.* for loose ditto in bags.

Mastich.—For new crop higher prices are asked, and up to 1*s.* 8*d.* per lb. has been paid for fine pale drop. Mastich of old crop, however, is offering at very low prices.

Oil (Cod-liver).—The market is extremely dull, and prices are more or less nominal. Some sales of new non-congealing *Norwegian* oil have been made at 77*s.* 6*d.* per barrel on the spot this week. For old oil the quotation is nominally 70*s.* Sales of fine *Newfoundland* oil are reported at 3*s.* per gallon, which seems an exceptionally good price, compared with the quotations for Norwegian.

Oils (Essential).—Oil of *Caraway* is easier at 4*s.* to 4*s.* 6*d.* per lb., according to quality; the raw material being plentiful and cheap. There is no prospect of higher rates for the present. *Cajuput* oil is extremely scarce at 2*s.* 8*d.* to 2*s.* 9*d.* per lb. *Oil of linaloes* has had a higher tendency lately, and is now quoted at 5*s.* 9*d.* to 6*s.* per lb. *Geranium oil* is tending lower; the prices of *African* and *Turkish* oils have been reduced by about 6*d.* per lb., the former being now offered, in good to fine quality, at 18*s.* 6*d.* to 19*s.*, the latter at 6*s.* 6*d.* for fine oil. *Ylang-ylang* may still be had, according to brand, at from 10*s.* to 15*s.* per oz., but it is said that there is every prospect of an advance as the crop has been injured by cyclones, and distillation is interrupted by political disturbances in the place of production. Two cases, however, have just arrived in London from Manila by the *Isla de Panay*. It is pointed out that the reported mobilisation of the Bulgarian militia at the present time, when the distilling-season is not far off, may have some effect upon the output of the coming *Otto-of-rose* crop. The market, however, has not shown any excitement in consequence of the news. The nominal price of *Star-anise oil* on the spot is still 6*s.* 6*d.* per lb., but 6*s.* 4½*d.* per lb. would no doubt be accepted by some holders. *Cassia oil* dull, and tending easier; 6*s.* 3*d.* per lb will buy oil of good quality (80–85 per cent.) on the spot. *Citronella oil* firm at 1*s.* 3½*d.* per lb. on the spot. For *Lemongrass oil* 2½*d.* per oz. is said to have been paid. The following figures represent the exports of citronella oil from Ceylon during the past ten years:—

	1893	1895	1894	1893	1892
Lbs. ..	1,132,141	1,182,255	938,471	638,530	844,502
	1891	1890	1889	1888	1887
Lbs. ..	703,972	909,942	641,465	659,937	551,786

and of cinnamon oil—

	1893	1895	1894	1893	1892
Oz. ..	132,057	78,587	88,150	140,334	106,303
	1891	1890	1889	1888	1887
Oz. ..	122,835	108,787	109,234	141,118	38,042

Opium.—The market for *Persian* opium is firm, with small sales at 10*s.* to 10*s.* 6*d.* per lb. for very fine, 9*s.* to 9*s.* 9*d.* for medium to good, and 8*s.* to 8*s.* 9*d.* for common qualities. *Turkish* opium dull.

Orris-root.—Still tending downwards. Best picked *Florentine* now offers at 48*s.* per cwt., c.i.f.; sorts at 46*s.*, c.i.f.; first-quality *Veronese* at 41*s.*; and sorts at 31*s.* per cwt., c.i.f. terms. On the spot, however, the quotations are out of proportion as compared with those mentioned above—viz., picked *Florentine*, 55*s.* to 57*s.*; sorts, 52*s.* 6*d.* to 54*s.* 6*d.*; and *Veronese* and best quality from 45*s.* to 47*s.* per cwt.

Potash Salts.—*Chlorate* is still held at 5¼*d.* per lb. for export to America by the United Alkali Company, but in second hand quotations are easier at 4¼*d.*, possibly 4⅛*d.* per lb. for May delivery. *Permanganate* extremely firm and scarce on the spot. Second-hand holders sell readily at 75*s.* per cwt. for small crystals; most makers are behindhand with their deliveries. It is said that large quantities of permanganate are now used as oxidising agents in the manufacture of sulphonal and other chemicals, and that this is one reason for the scarcity of the article. There is a fair quantity offering for August-September delivery, however.

Quicksilver.—Fairly steady, at 7*l.* 5*s.* per bottle from first, and 7*l.* 4*s.* from second hand.

Quillaia-bark.—Is dearer, with sales at 14*l.* 5*s.* per ton for fair quality.

Quinine.—Remains firm and scarce on the spot, but the price is nominally unaltered at 8½*d.* per oz. for second-hand *German* bulk. The machinery of the Bandoeng Quinine Works, Java, was tested on February 28 last, and found in excellent condition. The factory was to be formally opened on March 6, when the first batch of quinine was to be made in the presence of a specially-invited gathering of notable citizens.

Rhubarb.—The London market is very quiet, with a few small sales at steady prices. Cable-reports from China say that fair *High dried* root of the new crop is quoted there at the parity of 1*s.* 2*d.* per lb., and that it is estimated that there will only be one-half of an average crop this season.

Saffron.—At present the market is quite neglected, and some holders would probably accept lower prices. The chief importers, however, are fairly firm, the quotations ranging up to 41*s.* per lb. for fine new, and from 36*s.* to 37*s.* for good *Valentia*.

Safrol.—Scarce with a firm tendency, 2*s.* 2*d.* to 2*s.* 3*d.* per lb. is the current price for bulk.

Sarsaparilla.—Genuine grey *Jamaica* is very scarce, and changes hands privately at high prices. *Lima-Jamaica* is also scarce and dear; 1*s.* 5*d.* per lb. wanted for sound quality.

Shellac.—No auctions have been held this week, but the spot market is rather firmer. At the close of last week a good deal of business was done at full prices. During the present week the demand, especially for home trade, has considerably improved. It appears to be recognised that prices at present are lower than they have been for seven years, and several buyers therefore seem inclined to lay in a fairly considerable stock, whereas for a long time they have been buying from hand to mouth. Of fine *Orange* lac several sales have been made at prices ranging from 72*s.* 6*d.* to 79*s.* per cwt., cash terms, and for fine Octagon B out of condition 85*s.* per cwt. has been paid. Common to good TN second *Orange* has been sold on the spot at from 60*s.* to 65*s.* For AC *Garnet* 72*s.* per cwt., cash terms, has been paid to-day. Button in fair demand. The deliveries of this variety have been rather considerable lately, and the quotations are as follows:—Fine firsts, 77*s.* to 80*s.*; seconds, 70*s.* to 75*s.*; No. 2, in circle or triangle, 65*s.* to 68*s.*; thirds, 58*s.* to 59*s.* per cwt.

Soda Salts.—*Nitrate* steady at 8*s.* for ordinary, and from 8*s.* to 8*s.* 1½*d.* per cwt. for refined. *Caustic soda* in fair demand; 76 per cent., 8*l.* 15*s.*, f.o.b. Liverpool or Tyne; 74 per cent., 8*l.* 5*s*, f.o.b. Liverpool; 70 per cent., 7*l.* 7*s.* 6*d.* in London, or 7*l.* 5*s.*, f.o.b. Liverpool; and 60 per cent., 6*l.* 5*s.*, f.o.b. Liverpool. *Crystals* are firmer at 50*s.* per ton in bags, and 52*s.* 6*d.* in barrels, from the ship or wharf in London. The lowest quotation is 57*s.* 6*d.*, f.o.b.; that on the Tyne, 50*s.*, f.o.b. In all probability prices will be dearer. The largest makers, we believe, are disposed to ask 60*s.* per ton. 58-per-cent. *Alkali* firm at the recent advance to 3*l.* 17*s.* 6*d.* in bags on rails, or 4*l.*, f.o.b. Liverpool.

Soy is firmly held, with a continued upward tendency. For good Chinese 1*s.* 1*d.* per gallon has been paid.

Strychnia.—The manufacturers still ask 2*s.* 1*d.* per lb. for crystals and 2*s.* per lb. for powder.

Sulphonal.—The leading German sulphonal-factories have this week taken an energetic step to crush the Swiss competition which has beset them so long. For a considerable time the Swiss makers have sold sulphonal at from 14*s.* to 14*s.* 6*d.* per lb., about 1*s.* below the German price, and the older makers have been growling at the underselling without taking any effective steps to check it. On Monday, however, *Bayer's* brand was reduced to 7*s.* 9*d.* per lb., which is equal to a halving of the quotation, and since *Riedel* and other makers have followed suit. The following are the current quotations: 5-lb. bags and larger packages, 7*s.* 9*d.* per lb.; 2-oz.–1-lb. boxes, 8*s.* 3*d.* per lb.; 1-oz. boxes, 8*s.* 6*d.* per lb.; glass bottles, according to size, 8*s.* 6*d.* to 10*s.* per lb., without allowances or rebate. *Knoll's* brand is not quoted at

present. The principal "underseller" quotes 7*s.* 9*l.* per lb. nominally, but declines to accept orders.

Sulphur.—Firmly held, at 6*l.* 5*s.* for foreign flowers and 5*l.* 15*s.* for ditto *Roll.*

Tragacanth.—Common and medium grades have been in fair demand lately, and several parcels of recent arrival have changed hands. On the other hand, fine qualities are neglected, and other grades are rather easier. First white *Persian*, 13*l.* 10*s.* to 14*l.*; seconds, 11*l.* 15*s.* to 13*l.* 5*s.*; good fourths have sold up to 9*l.* 10*s.* per cwt.

Turmeric.—Quiet, but firm. A fair amount of business is reported in the Madras kind at steadily rising prices, closing at 17*s.* per cwt. for good bright finger. Good *Bengal* finger of dark fracture has been sold at 10*s.* to 11*s.* per cwt. For whole Madras *Bulbs* 13*s.* 6*d.* per cwt. has been paid, and a transaction in whole Cochin bulbs is reported at 7*s.* 6*d.* per cwt.

The Market in Heavy Chemicals.

There are only a few changes to report in the condition of heavy chemicals. A fair business is passing, and prices mostly remain steady and unchanged. *Sulphate of ammonia*, however, is again lower; Beckton, 7*l.* 11*s.* 3*d.*; Beckton, prompt, 7*s.* 10*s.*; Leith, 7*l.* 10*s.*; Hull, 7*l.* 11*s.* 3*d.*; London 7*l.* 12*s.* 6*d.* *Cream of tartar* dearer; powdered, 82*s.*; crystals, 80*s.* per cwt. *Green copperas* is also higher, owing to scarcity and heavy demand; the present quotations vary from about 38*s.* to 40*s.* *Caustic soda* and *Bleaching-powder* are in steady demand, *Soda crystals* moving freely. *Bichromates of potash and soda* in heavy request. *Chlorate of soda* a trifle lower. Yellow *Prussiate of potash* unchanged. *Sulphate of copper* 17*l.*; Liverpool, 17*l.* 15*s.* to 18*l.* *Benzols* firm; 90 per cent. prompt, 2*s.* 5*d.* to 2*s.* 6*d.*; forward, 2*s.* 4*d.*; 50 per cent., 2*s.* 4½*d.* to 2*s.* 5*d.*; July-December delivery, 2*s.* 4*d.* *Bicarbonate of soda* and *Ammonia alkali* in steady request. *Soda-ash, caustic* and *carbonated*, unchanged. Brown *Acetate of lime* in increased demand, the price now tends upwards. *Nitrate of soda* quiet. *Carbolic acids* steady, and in request; present quotations are: Crude, 75 per cent, 2*s.* 8½*d.* to 2*s.* 9*d.*; and 60 per cent., 2*s.* 3*d.* to 2*s.* 4*d.* Crystals, 39–40, 8*d.*, and 34–35, 7¼*d.* *Aniline oil and salts* only in slack demand, at the prices given last week. *Naphthas* are only moving slowly. *Sulphate of alumina and alum* in steady demand. Recovered *Sulphur* scarce. South Durham *Salt* firm. *Acetates of lead*, white and brown, in fair request, at unchanged rates. *Sulphocyanides* unchanged.

The Liverpool Drug-market.

Our Liverpool correspondent, writing on April 13, reports that *Castor oil* has experienced a better demand for the week, and the higher prices have been paid for all grades. Good seconds Calcutta are selling at 2⅞*d.*, Bombay at 3¾*d.*, first-pressure French at 2¾*d.* to 2⅞*d.* per lb., and of second pressure there is almost a bare market. Madras is still held for the extreme figure of 3¼*d.* per lb. *Quillaia-bark* is finding ready buyers at 14*l.* 10*s.* per ton, and there are rumours that the price will be yet higher at an early date. *Sulphate of copper* is quiet at 17*l.* 15*s.* per ton, with a steady tendency. *Potashes* unaltered, at 20*s.* per cwt. for potashes and 32*s.* 6*d.* for pearlashes. *Soudan sorts* of gum acacia are steadier, more inquiry having been experienced. Holders have shown less pressure to sell, and business has been effected at fully late rates, 60*s.* being paid for the hard type. Other qualities move off very steadily, an advanced price being realised for the late arrivals of Brazilian gum. *Kola-nuts* are steady at the late figures, 30 bags selling in one line at 2½*d.* per lb. Sierra Leone *Chillies* meet with a fair demand, and the value of good bright is 32*s.* 6*d.* to 37*s.* 6*d.*, according to quality. The stock of Madras *Turmeric* is reduced by the recent sales, and 100 bags of Bengal finger have been disposed of on private terms. *Beeswax* is in much better request, considerable sales having taken place at an advance of 2*s.* 6*d.* to 3*s.* 9*d.* on the late quotations, fine Chilian fetching 7*l.* 10*s.* to 7*l.* 15*s.* and medium grades 6*l.* 15*s.* to 6*l.* 17*s.* 6*d.* per cwt. Sales of Gambia (W.C.A.) were effected at 6*l.* 10*s.* per cwt. *Cream of Tartar* is firmly held at 82*s.* per cwt. for first white; some not containing the full percentage of bitartrate is obtainable at less money. Several parcels of Buenos Ayres, Peruvian, and Chilian *Honey* were offered at auction of low grades and were held for prices ranging from 19*s.* to 21*s.* per cwt., but the better grades still command full prices. Teneriffe *Cochineal* is selling at 1*s.* per lb. for good black. Fifty bags Cyprus *Anise* have been sold at 14*d.* per cwt. from the quay.

The Hamburg Drug-market.

Our Hamburg correspondent writes on April 12:—"Business in general is still very quiet here, and the drug-market makes no exception to this rule. *Tartaric acid* is steady, at 225m. to 235m. per 100 kilos. *Antimony* very firm, at 39m. per 100 kilos. *Arsenic* shows a very firm market; white lumps are quoted 49½m. to 50½m., red lumps 53½m., yellow lumps 53½m. per 100 kilos. *Balsam copaiba* is firm at 4.50m. per kilo. for genuine Maracaibo. *Balsam Peru* firmer, at 18m. per kilo. *Balsam tolu* firm, at 5½m. to 5½m. per kilo. *Camphor (refined)* is unchanged; firm at 290m. per 100 kilos. *Cassia lignea* quiet; the new crop is held for 78m. to 80m.; old crop for 90m. per 100 kilos.

The Amsterdam Cinchona-market.

Our correspondent writes that the Amsterdam cinchona-market remains extremely firm. All the lots bought in at the last auctions have since been sold at prices fully equalling the unit-rate at the auctions. There appears to have been an error in the figures of the Java shipments in March as first telegraphed. A corrected message gives the March exports at 578,000 half-kilos. instead of 350,000. At the next auctions on May 6 at least 5,834 packages of bark (possibly more) will be offered for sale. The feeling in the market is firm, and higher prices are expected.

The Bergen Cod-liver Oil Market.

Our Bergen correspondent writes on April 10 that the Lofoten fishery is drawing to a close. Most of the fishermen are leaving the islands for Finnmarken, where the fishing will be at its height next month. The fishing in the whole of Norway up to the present, compared with the same dates (April 10) of the past three years, has given the following results:—

	1897	1896	1895	1894
Millions of fish ...	42	31	54	45

It will thus be seen that the quantity of fish caught is rather below the average, although it is larger than last year, when the Lofoten fishery was a failure; but the quantity of steam-refined oil this year is much above the usual proportion, the figures being as follows:—

	1897	1896	1895	1894
Barrels	23,000	12,000	14,000	15,000

The market has again become very dull, the trade generally waiting the result of the Finnmarken fishing before operating any further; 75*s.*, f.o.b., is the highest price quotable for new-season non-freezing oil, and there are several lots of old oil on the market. The exports from Bergen up to date are 1,857 barrels, against 1,624 barrels in 1896. Another correspondent writes that it is unlikely the output of Finnmarken cod-liver oil will be large this season, as the raw industrial oils are likely to pay better.

Wills of Deceased Chemists.

The will of Mr. George Nind, pharmaceutical chemist, of 6 Ringsford Road, Wandsworth, who died on January 26, has been proved by Mr. H. N. Corsellis, of Wandsworth, the surviving executor. The personalty is sworn at 71,623*l.* 8*s.* 11*d.* gross and 71,555*l.* 7*s.* 11*d.* net.

The will of Mr. George E Smith, chemist and druggist, retired, Wakefield, who died on August 1, 1895, has been proved in London by Mrs. Smith, the widow, Mr. H. Hall, Wakefield, and Mr. Alfred Green, chemist, Exeter, the executors, by whom the personalty is sworn at 35,197*l.* 9*s.* 8*d.*

The will of Mr. William Warrior, retired chemist and druggist, 8 Market Place, Northallerton, who died on April 30, 1896, has been proved by Mr. Chas. Warrior, the son, Mr. John Dobbin, and Mr. John J. Jefferson, the executors of the testator, whose personalty amounts to 29,756*l.* 1*s.* 10*d.* gross and 29,660*l.* 12*s.* 11*d.* net.

Correspondence

Notice to Correspondents. *In writing letters for publication, correspondents should adopt a concise, but not abbreviated, style. They are requested to write on one side of the paper only. Letters, with or without a nom-de-plume, must be authenticated by the name and address of the writer. Queries should be written on separate pieces of paper, and the regulations printed under the sections to which they apply should be strictly observed.*

Company Pharmacy in Ireland.

Sir,—Should you have time to examine the annual orations of Mr. William Hayes, in his capacity as President of the Pharmaceutical Society of Ireland, you will find them pressed down and flowing over with phillipics against company pharmacy and the like abominations. And if, betimes, he seems to stop from pouring forth his soul in speech against such cunning circumventors of the Irish Pharmacy Acts, there is a silent suggestion of some deep dread purpose, which he is too wise to put in words, against corporate companies which dare to practise pharmacy.

Strange to say, Sir, I, and several like me, who by our votes placed Mr. Hayes and his colleagues on the Council of the Pharmaceutical Society, were vain enough to believe that this was not mere verbiage, but that it represented Mr. Hayes's honest belief that company pharmacy was inimical to the best interests of pharmacists in Ireland, and his faithful determination to suppress or limit it as far as possible.

In my humble opinion, Mr. Hayes and his colleagues have shamefully betrayed their trust; so far from endeavouring to suppress, limit, circumscribe, and subvert company pharmacy in Ireland, they encourage, amplify, and animate it by turning their own businesses into a limited company. There are in Ireland a number of young men fulfilling the dreary drudgery of unqualified assistants' duty, though qualified to pass their examination, but who have been refused admittance to it on the plea that they had served their time to limited companies, although these companies had privileges as being in business before the Act of 1875. And now the gentleman under whose presidency those men were refused leave to qualify for a decent livelihood has the amazing coolness to turn his own business into a limited company, one of the articles of whose association is to take apprentices! This extraordinary somersault is endeavoured to be justified by an ingenious plea, on which I should like to have the opinion of your Legal Editor. It is to the effect that as all the ordinary shares are in the hands of pharmaceutical chemists, all the proprietors are qualified, and therefore entitled to give certificates. Debenture-holders are asserted to be only in the position of money-lenders, and not proprietors.

This involves a legal question, and it were vain for a mere layman to argue on it. But I conceive that a debenture-holder is a proprietor who waives his claim to interfere in the management of the business as long as he receives a certain income from it, but who can take over the management should he fail to receive same. I am informed that the Courts have already decided to that effect, at least, in a theatrical case. It is scarcely credible that the law should consent to hypothecate such a case as that debenture-holders should never have an opportunity of interfering, or that in the unhappy event of the demise of one of the ordinary shareholders his heir should have the same qualification as himself. But if the nine branches of the company should all take apprentices, and if the Pharmaceutical Society should refuse to accept the certificates of those apprentices, it appears to me that the company would lay itself open to such a crop of actions as would possibly put the debenture-holders in a position to assert their proprietorial rights.

The plea raised is most ingenious; in fact, the whole floating of the company reflects so much credit on the financial abilities of the directors that one is apt to forget their attitude towards those who placed them in positions of honour in the Society, and who enabled them to utilise those positions for their own ends.

That company pharmacy means ruin to chemists in Ireland need scarcely be insisted on. A capital of two millions would buy up the whole trade. There are not more than a thousand shops of any note in the whole country, and an average of 2,000*l.* each would be more than enough.

A mere protest would obviously be a flatulent farce when the directors have the money in their pockets, but if the opinion of so humble and obscure an individual as I am could be listened to, I would suggest the following plan of campaign:—

The Chemists' Assistants' Association should take the matter up. They should address to every member of the Pharmaceutical Society and to each associate druggist a reply postcard, asking whether he approved of the action of Messrs. Hayes and Conyngham. If the majority of the replies were unfavourable, they would publish the result, whereupon the gentlemen complained of would probably resign. If not, they would lose their seats by rotation, and would not be re-elected. If Mr. Robinson's action were not approved of, he would probably be no longer re-elected examiner.

Yours sincerely,
James C. McWalter.

19 North Earl Street,
Dublin, April 10.

South African Physic.

Sir,—Happening to pick up your Winter Number of January, 1894, and seeing in the correspondence columns some letters on the subject of castorum, I thought it might interest some of your readers to know that it is used more in South Africa than at home. Euders or Stuip Droppels is a favourite Dutch medicine, used chiefly as a carminative. The formula (which may be varied by different houses) is:—

Tr. valerian..	℥j.
Tr. lavand. co.	℥j.
Sp. ætheris	℥j.
Tr. asafœtidæ	℥j.
Tr. castor	℥ij.
Tr. opii	℥ij.

Misce.

Amongst the Malays and coloured people of the Cape strong and evil-smelling drugs and medicaments seem to be preferred. The good old salts and senna are not despised by them, but though there are few drugs which are not used in England, several are used here much more than in the old country. Under the heading of "Dutch medicines," we put up in ʒvj. or ℥j. sexagons, labelled in Dutch, and sent out in cartons of one dozen, retailed at 6*l.* each, some mixtures, for which rival firms claim to have the only original recipe, and under their Dutch titles B.P. tinctures, &c., are sold, *e.g.*:—

Kramp Droppels	= Tr. valerian.
Versterk Droppels	= Tr. cinchon. co.
Staal Droppels	= Tr. ferri perchlor.
Witte Dulcis	= Sp. æth. nit.
Roode Lavendel	= Tr. lavand. co.

The last is, perhaps, the most popular of all. Duivel's Drek (gum asafœt.) is largely used as a panacea for infantile ills. Helmont's elixir is a sample of a Dutch mixture that ought to, if it does not, "touch the spot." It is composed of Cape aloes, bole, rhubarb, valerian, gentian, galangal, formensis, pot. carb., saffron, camphor, red Cape wine, and water.

Das Urine and Klip Zweet are purely indigenous remedies, and are both, I believe, animal excrements, the former of the dassies or rock-rabbits. Of course these things are only a part of one's stock. Throughout the country there are many really first-class dispensing businesses which would compare favourably with most English pharmacies.

I am, Sir, yours faithfully,
Cyanus Minor. (94/61.)

Johannesburg,
March 21.

The Social Position of the Dispenser.

Sir,—It may interest those of your readers who talk about the professional side of pharmacy to see the estimate placed upon it by the committee (or whoever is responsible for

classification in the uniform system of accounts) of Hospital Sunday Fund. Below is an accurate excerpt from sheet as sent to hospital secretaries; it speaks for itself:—

SALARIES AND WAGES.

Salaries to Officers—	Per annum
Chaplain	£
Secretary, or house governor	£
Clerk, or assistant	£
Steward	£
Matron	£
Registrars	£
Resident medical and surgical officers (state how many)	£
Other officers (not being resident, and who do not receive percentage or poundage)	£
Collector	£
Servants' Wages—	Per annum
Dispensers	£
Housekeepers	£
Sisters or head nurse	£
Nurses (regular)	£
Nurses (extra)	£
Servants (male)	£
Servants (female)	£

London, March 20. PHARMAKON. (76/60.)

The Cost of Examinations.

SIR,—Last year my son went in for the M.D. degree Edinburgh University. He forwarded his thesis and a money-order for 20*l.* Soon after he got 10*l.* returned, with the information that the fee had been reduced.

This is somewhat different from the present tendency of the Pharmaceutical Society. Yours,

DELTA. (96/12.)

[We have a number of letters on the by-laws and on pharmaceutical affairs generally in type, which we hold over until next week.—ED. *C. & D.*]

The North London Syphon Case.

SIR,—I read in THE CHEMIST AND DRUGGIST of April 10 that you have received a letter from a correspondent referring to the recent case in which Mr. Joseph James, of Barnsbury, was prosecuted for buying syphons. Your correspondent suggests that we "brothers of the pestle" should help our brother in defraying the expenses of the trial. If he will communicate with me, I, with others, will gladly co-operate with him in putting the matter fully before the trade, in order that it may be fully understood that the case was one of great importance to all chemists, and that the great expense and anxiety of mind attached was very serious, and might have occurred to many. Yours truly,

THOMAS SIMNETT.

70 Chapel Street, Pentonville, N.

Bleasdale's Price-list Prize Competition.

SIR,—When we first made the offer in your 1897 DIARY of a five-guinea prize to the one who discovered most errors in our Quarterly Price List, we had no idea there would be so many competitors, or so many errors. Nearly three hundred competitors sent in their names, but only forty-three sent in lists of errors. We assume that the remaining 250 odd found the task more herculean than they anticipated. The first gentleman who sent in his list discovered thirty mistakes, and we thought he would stand a good chance, because we imagined when we decided on the competition there might be twenty-five or possibly thirty errors discovered by diligent search. The second, however, sent in a list of fifty-seven, and we thought we might almost venture to send him the cheque. However, during the closing days of the competition bulky packages of foolscap began to arrive by every post, and the errors jumped from tens to hundreds and from hundreds to thousands. Mr. Tice, the winner, wrote he hoped we would be lenient with him as he had discovered over 2,000 errors; but the climax was reached when a gentleman sent us back our price-list, all covered with red-ink marks, and he mentioned incidentally there were so many mistakes he could not write them out. He had found, so he stated, the modest number of 11,864. Then our hearts failed us, and we wondered if there was a single line in the whole price-list in which this gentleman had not discovered a mistake. Imagine our joy when we had recovered from the first shock of horror that on the very first page, where he had scored 150 errors, we found three downright palpable blunders that he had omitted to mark. As we gradually gained courage, we looked still further into the matter, and found that he laid down certain rules of his own, without any regard to custom in the compilation of price-lists. Any breach of these (his own) rules he counted a mistake. As it was not our object, in organising this competition, to have a new price-list printed, but merely to get our present one revised, we were compelled to rule the gentleman, with 11,864 mistakes to his credit, out of the competition. The next in order of number was Mr. Lennox Tice, of 4 Dalston Lane, London, N.E., who claims to have discovered 2,074. On checking his list we disallowed 323, which left him with a net total of 1,751, and we are acting as "leniently as we can" in sending him a cheque for five guineas. About 90 per cent. of the mistakes are omissions of full stops in abbreviated words. The competition has entailed a considerably greater amount of labour on our part, as well as on the part of the competitors, than we anticipated at the onset, and we beg to tender our thanks to all who competed, for the trouble they have taken in the matter, and for their friendly criticism on many points. Yours faithfully,

For Bleasdale, Limited, A. HUMPHREYS.

York. Managing Director.

[Messrs. Bleasdale append to their letter complimentary quotations from the letters of some of the competitors, but for these we cannot make room in our literary section.—ED. *C. & D.*]

Booking-fee.

SIR,—I am pleased to see the booking-fee question being taken up again. I have always considered the charge illegal, and should much like to see the matter tested.

If the question be taken up energetically by the London wholesale houses I have little doubt redress will be obtained, but it is, of course, hopeless for isolated country dealers to attempt to fight the big carrying companies.

I am of opinion it is about as absurd for carriers to charge booking-fee 2*d.* as it would be for a wholesale house to add to invoice "Proportion of expenses for book-keeping, 2*d.*"

Yours, &c.,

April 7. PROVINCIAL. (92/28.)

DISPENSING NOTES.

A German Prescription.

92/49. *F. E. R.* sends a negative of a German prescription written by a Dresden medical man, and which calls for what reads like "tr. ratanhi salol.," a teaspoonful of it to be used with water for a cough. We do not know of any tincture of the above name, but there is a tr. ratanhi sacch., consisting of rhatany-root 2, caramel 1, distilled water 4, and S.V.R. 6 (all by weight). This is probably what is meant.

Quin. Cit. and Potas. Cit.

SIR,—I cannot agree with the conclusion arrived at by the members of the Liverpool Pharmaceutical Students' Society regarding the best method of dispensing mixtures containing pot. citras. and ferri et quin. cit., as reported in your issue of April 10. If dispensed as Messrs. Wokes and Lean suggest, the result will be a slow deposit of crystals upon the sides of the bottle while in the customer's possession. The addition of citric acid somewhat retards the formation of the precipitate, but the crystals then separate in magnificent rosettes, the size increasing with the proportion of citric acid added. My attention was drawn to this reaction about two years ago, and I then performed a series of experiments, using neutral and acid pot. cit. with a view of ascertaining whether or not the precipitate could be avoided, but in all

cases it occurred sooner or later. The best mode of procedure seems to be to mix rather concentrated solutions of both salts, so as to get down as much precipitate as possible, add the remaining ingredients, and attach a "shake the bottle" label. Made thus, the mixture is not elegant, but the increased accuracy of dosage more then compensates for any fault in its appearance. Yours truly,

Uckfield, April 12. W. G. Stratton.

A Strange Emulsion.

Sir,—I should be obliged if you can tell me the proper way of making up the following prescription. I have tried several ways, but made it a very sticky, soft paste; and it has been made up elsewhere, and looked like soft white paraffin, without any feeling of stickiness, and slightly separating after ten days:—

Calcii oleati	ʒij.
Lanolin.	ʒiij.
Vaseline alb.	ʒj.
Pulv. acaciæ	gr. 100 or q.s.
Acid. boric.	gr. 16
Ol. geranii	♏iv.
Aq. rosæ conc.	℥j.

M. Ft. emulsio as directed. Mitte ℥ij.

Calc. Oleat. (79/60.)

[We have made it satisfactorily as follows:—Mix the oleate, lanoline, and vaseline in a mortar. Separately mix the rest of the ingredients, and gradually add this mixture to the mortar with diligent stirring. It comes out all right this way.]

MISCELLANEOUS INQUIRIES.

83/70. *Solon.*—**Ginger-beer Syrup:**—

Tr. zingib. fort.	℥ss.
Tr. limonis	ʒij.
Acid. tartaric.	ʒj.
Syrup. ad	℥j.

M.

A tablespoonful of this to a tumblerful of water.

83/58. *A. P. S.*—**Sarsaparilla and Quinine Blood-mixture:**—

Spt. chloroformi	ʒij.
Ext. cinchon. hydrobrom.	ʒiij.
Dec. sarsæ co. ad	℥viij.

M.

Dose: A tablespoonful thrice daily.

85/22. *J. C.*—**Salad-cream.**—The following is the only formula we have. If you need it for bottling you must add 1 gr. of salicylic acid to the ounce:—Beat together 4 egg-yolks, mustard ½ oz., and salad oil 4 oz.; then work in 4 oz. of vinegar, added carefully, and 4 oz. of water; lastly, 1 dr. of table-salt.

91/68. *Atropia.*—**Works on Alkaloids.**—Sohn's "Dictionary of the Active Principles of Plants" (Baillière, Tindall & Cox, 12*s.* 6*d.*) and "Einführung in das Studium der Alkaloide," by Guareschi and Kunz-Krause (Gaertner, Berlin). The latter is a splendid work, but only the first part has been published. You can get it from Norgate & Williams, Henrietta Street, W.C.

89/55. *Incubator.*—The **Metallic Indicators** which are used in incubators are composed of alloys, the composition of which is a secret, we are informed. Alloys of copper and zinc expand more than copper alone. You may be able to make an indicator from these.

90/44. *W. W.*—**Dry Shampoo-liquid.**—See *C. & D.*, August 22, 1896, page 329.

90/25. *Daisy.*—**Daisy-powders.**—We think you may safely rely upon the powders being now accurately divided and safe.

90/57. *Disease.*—You will find an answer to a similar question a few weeks back.

90/68. *Sulphur.*—**Sulphur Skin-lotion.**—The following is good:—

Zinci sulphocarbolat.	℈j.
Zinci oxidi	ʒij.
Sulphur. præcip.	ʒj.
Aq. coloniensis	℥vj.
Glycerini	℥vj.
Aq. ad	℥vj.

Mix the zinc oxide and the sulphur with the glycerine, add the eau de Cologne, and transfer to a bottle. Wash out the mortar with the water in which the sulphocarbolate has been dissolved, and add to the bottle. Mix.

90/73. *Hernia.*—You will find the Willardbell truss satisfactory in every way. It suits for inguinal and scrotal hernia.

90/74. *T. W. P.*—**Weed-killer.**—The best concentrated preparation is a mixture of white arsenic 1 part, and crystal carbonate (of soda) 2 parts. One pound of this will make 2 to 4 gallons of weed-killer, by dissolving in boiling water. The mixture must be coloured with Prussian blue. See also *C. & D.*, January 20, 1896, page 880.

97/39. *West Sussex.*—We cannot express an opinion as to the reasonableness of your claim for an increase of salary.

89/58. *Devonshire.*—We cannot advise you in the matter except to say that the man is not a recognised authority, as far as we are aware.

94/69. *E. H. R.*—**Concentrated Waters.**—See our Diary, page 264, and our Winter Number.

95/14. *E. M. P.*—A little carbonate of magnesia (light) is as good as anything for clearing essence of peppermint. Your other question is settled for you in the British Pharmacopœia, to which please refer.

96/11. *Peroxide.*—We do not analyse anything about which full particulars are not sent.

95/69. *G. P. G.*—**Vin. Morphinæ Tart.** is substantially a similar preparation:—

Morph. tart.	ʒj.
Vin. xerici	℥xv.

Dissolve, set aside for a month, and filter.

91/28. *Ralia.*—"A gentleman, aged 30 years, with Minor qualification, wishes to become an analytical or scientific chemist. What is the best and most economical way to qualify for this?"—(1) Get a nice brass-plate with his name and "analytical and consulting chemist" engraved on it, and put it on the door; or (2) get the Fellowship of the Institute of Chemistry. The latter is the more honourable course. You will find all about it in our last Educational Number, September 5, 1896.

INFORMATION WANTED.

The Editor will be obliged for replies to the following from any who can furnish the information.

93/40. Zymol: who are the makers or agents?

96/5. Best way of obtaining stereo blocks cheap, and paper, cards, and printing materials generally?

96/57. Paris green: where obtainable?

98/39. Watson's lawn-sand; maker's address.

Coming Events.

Wednesday, April 21.

Royal Microscopic Society, 20 Hanover Square, W., at 8 P.M. Exhibition of Microscopical Entomological Specimens by Mr. F. Enoch, F.L.S., F.E.S.

Midland Chemists' Assistants' Association, Exchange Rooms, Birmingham, at 9 P.M. Mr. F. H. Alcock, F.I.C., on "The Studies of a Pharmacist," with illustrations from the Minor syllabus and the B.P.

20 HIGHEST AWARDS.

Pears' Soap

Soap Makers by Appointment to H.R.H. The Prince of Wales.

		Per Dozen.
6d.	SIZE, unscented - - -	4s.
1s.	„ all shapes, Washing or Shaving	8s.
1s.6d.	„ Ditto ditto	12s.
2s.6d.	„ (The Washing Tablets are perfumed with Otto of Roses)	20s.
TRANSPARENT GLYCERINE	2s. per Box of 3 Tablets	16s. Per dozen Boxes.

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On all ORDERS of NOT LESS than £5.

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[Lesser Quantities 15 per Cent. Discount only.]

IMPORTANT STATEMENT.

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(Signed), A & F Pears, Ltd.

71-75, NEW OXFORD STREET, LONDON, W.C.

"D.C.L." MALT EXTRACT

IMPORTANT NOTICE TO THE TRADE.

The DISTILLERS COMPANY, LIMITED, having exceptional experience of Malting, and commanding the services of highly-trained Analytical Chemists, together with the choice of the finest Grain procurable, consider that they occupy an unusually favourable position for the manufacture of

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I feel it is my duty to inform you that I had occasion during last week to test one of your Blaud's pills against another pill supposed to be of a similar nature, which had been purchased at a Drug Store, but which did not seem to be doing any good. I cut both pills in halves. Yours, when wetted, **gave the proper green reaction** of nascent Ferri Carb. The Store pill was quite oxidised, and gave not the slightest indication of any Ferri Carb. when wetted.

I trust this may be of some use to my fellow-craftsmen, also to yourselves.

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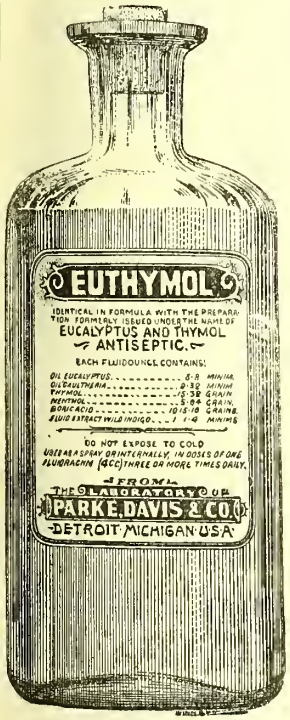

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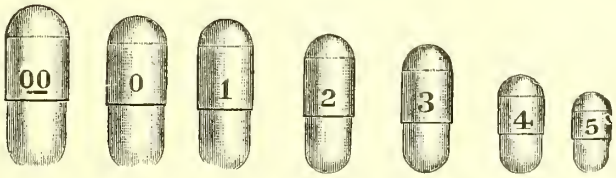

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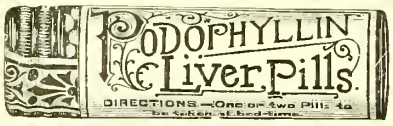

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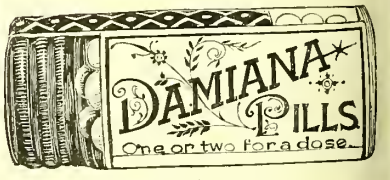

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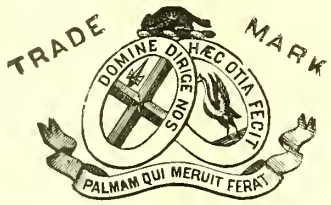

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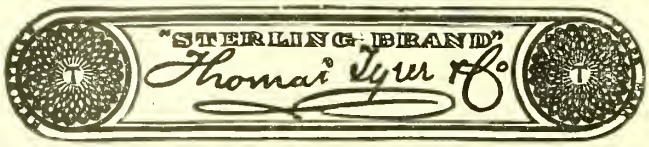

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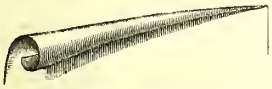
Spirit Nitrous Ether & Aromatic Ammonia, B.P. Essences and Fruit Flavours — in Bond.

If you experience any difficulty in Closing Cachets

TRY KOSEALS

(Patented).



W. IVE, of Gloucester Road, S. Kensington, writes:—

"The Cachets are to hand, and are extremely nice; personally, I think your Cachets far and away superior to any others in the market."

KOSEALS have a raised surface on the rim to simplify the process of moistening, and are otherwise identical with Morstadt Cachets.

KOSEALS may be made very wet without the edges crinkling, and thus looking unsightly.

KOSEALS may be used **alone, or in combination with ordinary Morstadt Cachets,** using KOSEALS for the top halves only.

KOSEALS are supplied in the same sizes as Morstadt Cachets, and at the same price of **3/-** per 1.000.

KOSEALS fit the Morstadt Apparatus.

MORSTADT CACHETS

The following illustrations represent two methods of closing KOSEALS:

Fig. 1.—**Closed with much moisture and considerable pressure;** the edges are *closed*, and the closed KOSEALS differ in no way from the ordinary Morstadt Cachets.

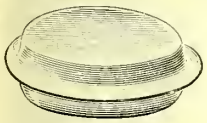


Fig. 1.

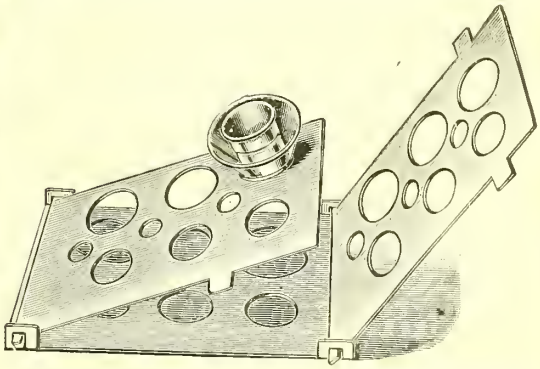
Fig. 2.

Fig. 2.—Closed in the ordinary way, with **less moisture and little pressure;** the rims remain apart.

A Customer writes:—"Patients find them nice to swallow, for the reason that when the edges are not stuck together they soften more readily."

APPARATUS.

Stock sizes from **2/6** to **30/-**, closing 12, 3, or 1 Cachet or Koseal at a time of various or all sizes.



This 10/- Apparatus closes 3 at a time of any of the 6 sizes of Cachets.

SPECIAL FEATURE: Coloured, Embossed, or Printed Cachets and Koseals.

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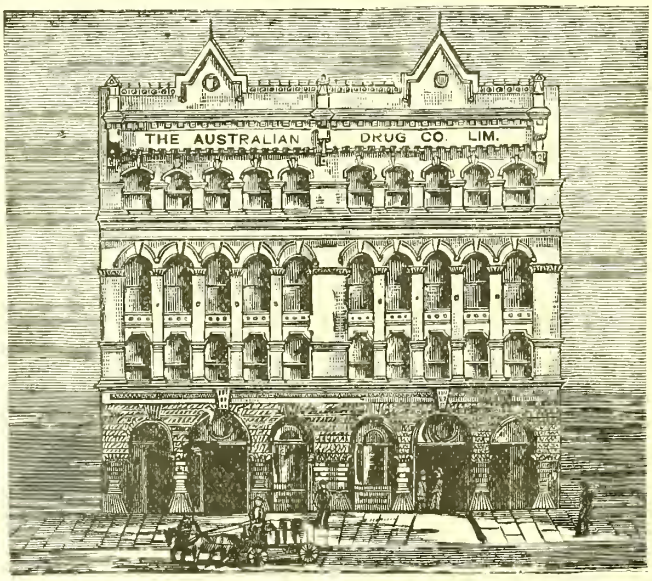

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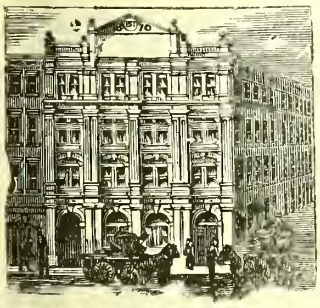

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TO THE MEDICAL PROFESSION AND CHEMISTS.

Owing to misapprehensions as to the amount of morphine used in the preparation of

Mrs. WINSLOW'S SOOTHING SYRUP,

we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, or maximum dose, is one sixty-fourth (1/64) of a grain.

It will be seen that this is very much less than the quantity used in other preparations authorised by the Pharmacopœia.

The Anglo-American Drug Company (Lim.),
W. RENAUD, Managing Director.
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NEPENTHE.

THE SAFEST AND BEST PREPARATION OF OPIUM.

PRODUCES NEITHER HEADACHE, SICKNESS, NOR CONSTIPATION

PREPARED EXCLUSIVELY FROM OPIUM.

Although many new hypnotics and analgesics have been recently introduced, NEPENTHE still holds its position as THE hypnotic and sedative *par excellence*. "Nepenthe" is registered under the Trade Marks Act, and is our sole property. *No other preparation* should be substituted when Nepenthe is ordered in a prescription.

Sent out in bottles bearing a label in white letters upon a green ground. We prepare also *Double Strength Nepenthe*, and Glycerole of Nepenthe (eight times the single strength) for hypodermic injection.

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FERRIS & CO., WHOLESALE AND EXPORT DRUGGISTS. **BRISTOL.**

HEWLETT'S
MIST. PEPSINÆ CO. c. BISMUTHO

Price (in England) 10s. 6d. per pound.

Dose.—½ to 1 drachm, diluted. Packed (for Dispensing only) in 10-oz., 22-oz., 40-oz., & 90-oz. Bot

LONDON MEDICAL RECORD REPORT.

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"This combination of Messrs. HEWLETT's is one which has been extensively tested, and with good results. It is justly popular in the professio as a very valuale and effective combination. It serves not only to improve aspepsia, but to lessen the gastric pain and to facilitate difficult a painful digestion, without setting up any evils of its own. It is a very good crutch for persons of weak stomach to lean on."—*January* 15, 188

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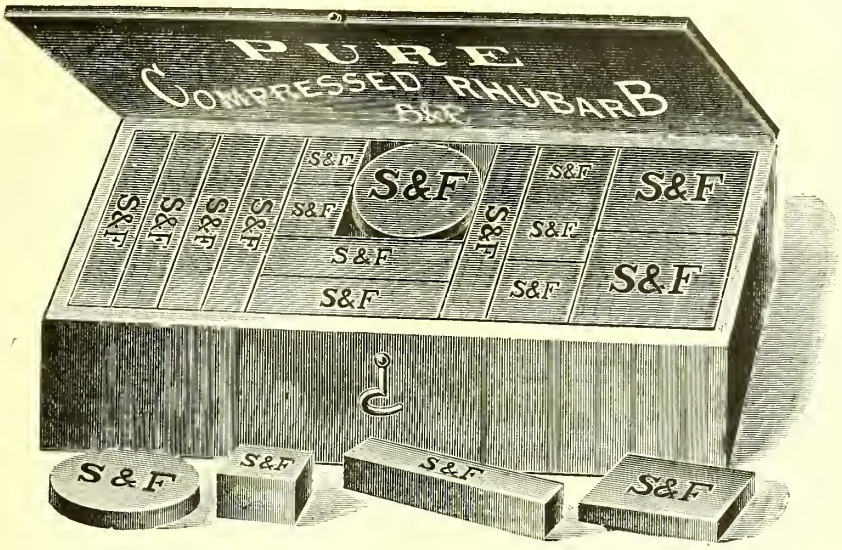

Compressed Rhubarb.

WE are desirous of calling your attention to our **COMPRESSED RHUBARB**, made in **fingers, cubes, round and square slabs** (as shown in illustration at the head of this Circular), and put up in neat 1-lb. wooden boxes with hinged top.

It is made by our American house, and has a large sale in America, where it has practically superseded the old-fashioned cut and trimmed Rhubarb.

We guarantee that it contains absolutely nothing but CHINA RHUBARB, no gum or any admixture whatever.

The ADVANTAGES are, among others:—

THAT **it keeps its colour** and will **not get wormy** even if kept for an indefinite time.

THAT it always looks **neat and bright,** and is put up in an attractive manner.

THAT the usual waste in cutting and breaking is entirely avoided; if put in a mortar it can be reduced to a powder very easily, thus obviating the keeping in stock of powdered Rhubarb.

THAT—Lastly, the price is a low one, 5/- per lb. net through usual wholesale houses, or if not obtainable through that channel, we will be glad to supply direct.

SAMPLES MAY BE HAD ON APPLICATION TO

STALLMAN & FULTON, Importers & Exporters of Drugs,

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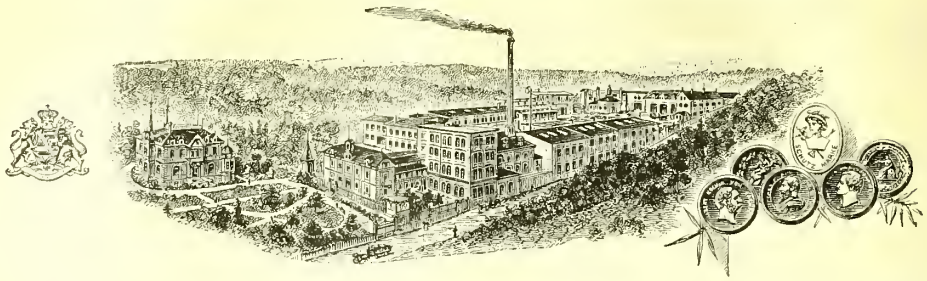

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Gentlemen,

On opposite page I beg to submit Trade and Retail Price of some of my Preparations and Specialities; in soliciting the favour of your esteemed orders, I may be permitted to point to the splendid success that the Ferro-mangan preparations have achieved, and the large patronage the medical profession has extended to them by reason of their scientific composition, great efficacy, and very pleasant taste. For these reasons they are preferred to any other Iron preparation put on the market or brought under the notice of the profession.

This great success of the Ferro-mangan preparation bids me hope that my efforts in bringing forward others of my preparations will not be in vain.

I remain, Gentlemen,

Yours faithfully,

April 30, 1897. EUGEN DIETERICH.

EUGEN DIETERICH

CHEMICAL WORKS at HELFENBERG, near DRESDEN.

PRICE LIST.

Dieterich's Ferro-mangan Preparations—

Liquor ferro-mangani saccharati (Dieterich)
Liquor ferro-mangani peptonati (Dieterich)
Liquor ferro-mangani peptonati cum iodo (Dieterich)
— 8-oz. bottle (retail, 2/3); per doz., 20/–. 16-oz. bottle (retail, 4/–); per doz., 34/6. Can be had unstamped for dispensing.

The ferro-mangan saccharate and ferro-mangan peptonate are unrivalled in their efficacy in all cases of anæmia and chlorosis, and are of very pleasant taste. They do not affect the teeth and are never refused by patients even if taken for a long time.

The ferro-mangan peptonate with iodine was found to be an excellent substitute for cod-liver oil, especially in summer time, when the use of cod-liver oil is generally discontinued.

Dieterich's Umbilical Rubber Bandage—

Diameter, 70 mm. (retail, 7½*d.*); per doz., 3/10; per gross, 43/6.
Diameter, 90 mm. (retail, 10*d.*); per doz., 5/6; per gross, 63/–.

This umbilical bandage is a very saleable article, and of proved utility; as the price is trifling compared with the bandages now on the market, a trial surely will pay.

Dieterich's Cod-liver Oil Compounds—

Cod-liver oil with: bromine and sulphur, iron and bromine, iron and iodine, iron-manganese and quinine, iron-manganese and bromine, iron-manganese and iodine, iodine and sulphur, iodine and tannic acid, quinine ... ... — Retail, 2/–. Per doz., 16/6.

Cod-liver oil with iron, iron-manganese, iron-manganese and phosphorus, phosphorus ... ... — Retail, 1/9. Per doz., 15/–.

Dieterich's cod-liver oil compounds are the best preparations as to taste and efficacy known to the profession.

Dieterich's Tapeworm Cure—

For adults ... ... Retail, 2/6; per doz., 18/6
For children ... ... Retail, 2/–; per doz., 13/–

Its unrivalled efficacy in expelling tapeworms is due to the employment of extract of male fern of superior quality in combination with castor oil. Given in that manner a relatively small quantity of the extract is sufficient, and all disagreeable after-effects caused by large doses of the extract are avoided.

Dieterich's Extract of Malted Acorns—

Retail, 1/9; per doz., 12/–.

Was found very useful in rickets of children, and for persons suffering from malnutrition.

Dieterich's Court-plaster—

Spread on silk; width, about 20 inches:
White, flesh-coloured or black, flesh-coloured arnicated or flesh-coloured salicylated ... ... — Rolls of 1 yard, 4/–; 5 yards, 19/–.

In attractive envelopes containing one leaf of plaster:
Flesh-coloured, white or black, size 35 by 60 mm. (1*d.* retail), 2/10 per 100; 12/9 per 500.
Ditto, size 60 by 70 mm. (2*d.* retail), 5/– per 100; 24/– per 500.

In stylish fancy pocket-cases, containing one leaf of plaster:
Flesh-coloured, white or black, size 35 by 60 mm. (1*d.* retail), 3/– per 100; 14/– per 500.
Ditto, size 60 by 70 mm. (2*d.* retail), 5/6 per 100; 25/6 per 500.

Customers' name and address will be printed on every envelope or pocket-case at a charge of 1/– per hundred. On buying 500 at the time, of one size, this will be done gratis.

Please compare prices.

Dieterich's Mustard-plaster—

Cardboard boxes containing:	Leaves 50	100	500
100 leaves each	—	2/3	9/9
50 leaves each	1/5	—	10/6
Lithographed tin boxes containing:			
100 leaves each	—	2/10	12/3
10 leaves each	2/3	—	19/9

Comparing analysis proved that Dieterich's mustard-plaster is the strongest on the market, as no other forms so much mustard oil when dipped in water as Dieterich's.

Dieterich's Glue-bandages (Colligamen)—

	Per 1 doz. rolls of 1 yd.	2 yds.	5 yds.
Glue-bandage, with acetate of lead 5%, or acetate of alum. 5%; boric acid 3%, or Hebra ointment 10%; sublimate 0·1%, or salicylic acid 3%; sulphur 10%, or oxide of zinc 25%; zinc and salicylic acid 25% : 5%, or plain	3/3	6/2	15/5
Glue-bandage, with ichthyol 5%, or iodoform 5%; loretin 5%, or zinc and ichthyol 25% : 4%	5/–	9/5	23/5
Glue-bandage, with iodide of potassium	4/–	7/9	19/–
Glue-bandage, with mercury 20%, mercury and soap plaster (20% Hg)	6/5	12/3	30/9

Dieterich's Soap Glue Bandages—

Soap glue bandage, with carbolic acid 5%, or plain	2/7	4/9	11/10
Soap glue bandage, with ichthyol 5%, or iodide of potash 2%	3/3	6/2	15/5
Soap glue bandage, with loretin ...	5/–	9/5	23/5
Soap glue bandage, with sulphur 10%, or tar 10%; sulphur and tar 5% of each	2/7	4/9	11/10

Samples and Testimonials free of any charge on application.

Sole London Agents for Export: CHARLES YARROW & CO.

36 BASINGHALL STREET, LONDON, E.C.

Telegraphic Address—"VACCINATOR LONDON." Code—A B C. 4th Edition.

See opposite page]

Registered Trade Mark.

PAPAIN FINKLER

Registered Trade Mark.

Is the most active and reliable form of the well-known vegetable digestive ferment, which has largely taken the place of Pepsin, owing to its special properties. Papain converts proteid (meat albumen) into Pepton in an acid, alkaline and neutral medium; it exerts at the same time a tonic and antiseptic action. Papain Finkler is now largely used in the curative treatment of **Gastric Ulcer** (see *Lancet*, 9/2, '95, page 333), as an aid to the nutrition of patients suffering from **Phthisis** (see *Lancet*, 27/4, '95, page 1050) and in **Diphtheria**, as a local application which is in no wise diminished by the constitutional effects of the antitoxin treatment.

NOTICE.—PAPAIN FINKLER is guaranteed a pure product free from any admixture of Pepsin or other ferments, its uniformity is further guaranteed by an independent analysis of a London Analyst of high standing, of each batch as it is received from the works (see *Chemist and Druggist*, 10/4, 1897, page 597).

An Absolutely Non-Poisonous, Non-Corrosive, and Most Powerful

ANTISEPTIC DISINFECTANT & DEODORANT.

CHINOSOL as a germicide is at least 40 times stronger than **Carbolic Acid**, and considerably more effective than **Corrosive Sublimate**, without possessing the dangerous and objectionable properties of these two antiseptics.

(See published Bacteriologic' Reports and other Literature.)

CHINOSOL is sold in Powder, Compressed Tablets, Antiseptic Surgical Dressings, Dusting Powders, Ointments, Soaps, &c. Crude Chinosol in Granular, Powder, and Fluid form for **Disinfection** and **Deodorization only.**

For other Special Lines see full Price List, which will be sent with Literature on application to

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POWDERED TARTARIC ACID

Guaranteed to pass the British Pharmacopœia Test.

Powdered Cream of Tartar, 99/100%

at UNDER *pro rata* price of the ABSURD British Pharmacopœia Standard.

Delivery free United Kingdom in suitable quantities. Samples and Prices from

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132

Mention has been made of a medical discovery. In w York and Boston experiments had been attended h the most astonishing success. . . . The Doctor is a n forever on the look-out for more knowledge of his fession, and for more remedies to benefit mankind: hummed and ha'd over the pamphlet in his study, oped it down after a while and said—'I think there great deal in it.'"—(W. M. Thackeray: "The Adtures of Philip.")

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e eight preparations mentioned on this ge are not secret remedies. They retail at **4s. 6d.** per bottle, except

CACTINA PILLETS, 1s. 6d.,

and

PINUS CANADENSIS, 7s.,

per bottle.

ey leave a good profit to the retailer.

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u will probably be asked for them by Medical Men, remember therefore that

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ALETRIS CORDIAL.

An uterine tonic and restorative, prepared from the root of *Aletris farinosa*, in combination with aromatics.

CACTINA PILLETS.

Cardiac tonic stimulant, prepared from cactina, the active principle of *Cactus grandiflora*. Each pillet = $\frac{1}{100}$ grain of cactina.

CELERINA.

Nerve tonic, stimulant and anti-spasmodic. Every fl. dr. represents gr. v. each of celery, kola, coca, viburnum and aromatics.

CHIONIA.

An hepatic stimulant. From *Chionanthus virginica.*

EXTRACT OF PINUS CANADENSIS

(*KENNEDY*).

Non-irritating mucous astringent. Made in two varieties dark, for internal, and white, for external, use.

PEACOCK'S BROMIDES

containing, in each fluid drachm, 15 grains of pure bromides of potassium, sodium, ammonium, calcium, and lithium in combination.

SANMETTO.

Prepared from true sandal oil and saw palmetto. Acts as an aphrodisiac and a vitalising tonic.

SENG.

A powerful digestive secernent, representing the active constituents of the root of *Panax Ginseng.*

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TO BUYERS.

OUR Manufacture of this article has met with all-roud commendation from our Customers, and, judging y the increased demand last season, has met with a rea and quick sale. We are confident that your trade m be largely increased if you buy a good article whih gives satisfaction to all. As a basis we take the Brit h Pharmacopœia formula, but, owing to the desire of te public for a more palatable article, we prepare four kin, indicated by the letters A, B, C, and D, each having te proportion of sugar varied according to the price.

"A" QUALITY. Very Superior.
BLUE LABEL. Per lb. 10d. Per cwt. 85s.

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PINK LABEL. Per lb. 9d. Per cwt. 68s.

"C" QUALITY. Very Good.
YELLOW LABEL. Per lb. 8d. Per cwt. 62s.

"D" QUALITY. Good Saleable.
WHITE LABEL. Per lb. 7d. Per cwt. 56s.

Also put up in 1-lb., ½-lb., and ¼-lb. Round Blue Bottles, corked, or in 6-oz. and 8-oz. Blue Flats, lettered, patent stoppered or wood top corks.

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In 6-oz. and 8-oz. Patent Stoppered Bot s, each enclosed in a cartoon, and covered wit n elegantly designed wrapper, without name, 6s. 6d. and 8s. per doz.
(Buyers of 3 doz. of either size can have t ir name and address on label without extra cha e.)
In 6-oz. and 8-oz. White Glass, without wrap rs and cartoons,
3s. 9d. and 5s. per doz., 42s. and 54s. per g s.
(Lemon, Lime Fruit, or Raspberry flavour and nt if desired.)
Also in 4-oz. Tins,
3s. 6d. per doz., 30s. per gross.

	Per lb.	Per cwt.
CITRATE OF MAGNESIA, Raspberry Flavour, tinted ...	1/- ...	70/-
" " *Lime Fruit Flavour*	1/- ...	70/-
" " *Lemon Flavour, tinted*	1/- ...	70/-

SAMPLES and FULL PRICE LIST **FREE** on RECEIPT of POSTCA D.

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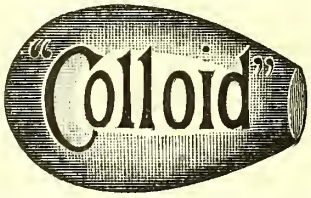

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SPT. ETHER NIT.	EXT. ERGOTÆ LIQ.	ERGOTIN.
SOL. ETHER NIT., 1 to 7.	EXT. IPECAC. ACET. LIQ. (1=4.)	SALICIN.

PURE CHLOROFORM

A definite Chemical Compound, answering British Pharmacopœia and all other Official Tests.

IS EXTENSIVELY USED IN THE PRINCIPAL HOSPITALS AND INFIRMARIES.

ANÆSTHETIC ETHER

(AS USED BY THE LATE DR. THOMAS KEITH AND MANY EMINENT SURGEONS).

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Prepared from the Special Formulæ of LORD LISTER, F.R.S., and guaranteed to contain full percentage of antiseptic substance.

Since their introduction in 1871 these Dressings have continued to merit the confidence and approval the Profession.

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Chloroform (**DUNCAN'S S.G. 1490**) Non-decomposable.

PURE AND METHYLATED.

This contains about 1 per cent. Absolute Alcohol, but in other respects is identical with our ordinary make (S.G. 1497), which contains about ¼ per cent. While this minute proportion of Alcohol in no way affects its anæsthetic power, it renders the Chloroform **PRACTICALLY NON-DECOMPOSABLE.**

N.B.—We are now bringing this Chloroform prominently before the Medical Profession, but we continue to send out Sp. Gr. 1497 where Sp. Gr. 1490 is not specially ordered. We recommend the latter for export particularly to warm climates.

GELATINE CAPSULES, 1,000 Varieties

CASCARA CAPSULES. EASTON SYRUP CAPSULES.
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BLAUD PILL CAPSULES.

GUARANTEED STRENGTH.

At the request of medical men and others we have analysed a number of BLAUD PILL CAPSULES similar in size and colour to those of our own make. These capsules were stated to be each equal to three Blaud Pills, but our analyses showed that in no instance were they equal to more than 1½ Blaud Pills. This is neither fair to the medical man nor to his patient.

WE GUARANTEE OUR ONE, TWO, AND THREE PILL CAPSULES TO BE EQUAL RESPECTIVELY IN FERROUS CARBONATE TO ONE, TWO, AND THREE FRESHLY-PREPARED BLAUD PILLS. THEY HAVE ALSO THIS DISTINCT ADVANTAGE OVER PILLS, THAT THEY NEITHER OXIDISE NOR HARDEN.

THE ABOVE MAY BE ORDERED THROUGH ANY WHOLESALE OR RETAIL DRUGGIST.

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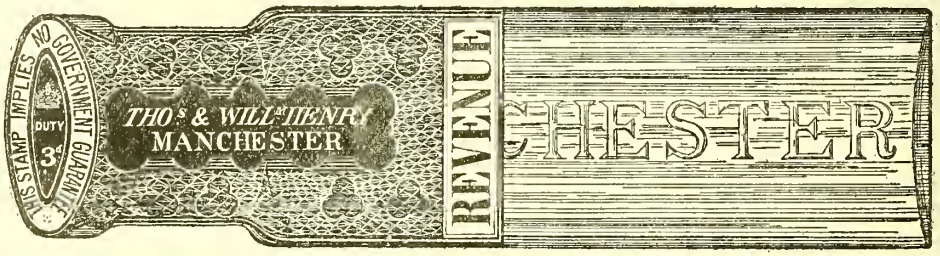

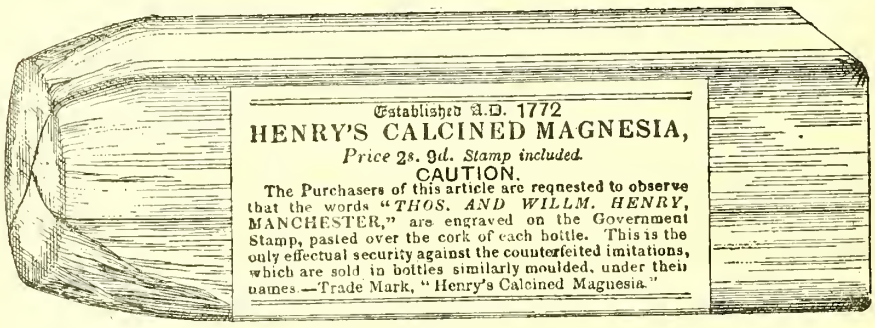

THE LABELS CAN BE HAD IN ENGLISH, SPANISH, PORTUGUESE OR ITALIAN.

Messrs. HENRY will be pleased to hear from Merchants who are suspicious of any Stock in their possession.

The Magnesia may be had through all Wholesale Houses.

Registered Trade Mark—"HENRY'S CALCINED MAGNESIA."

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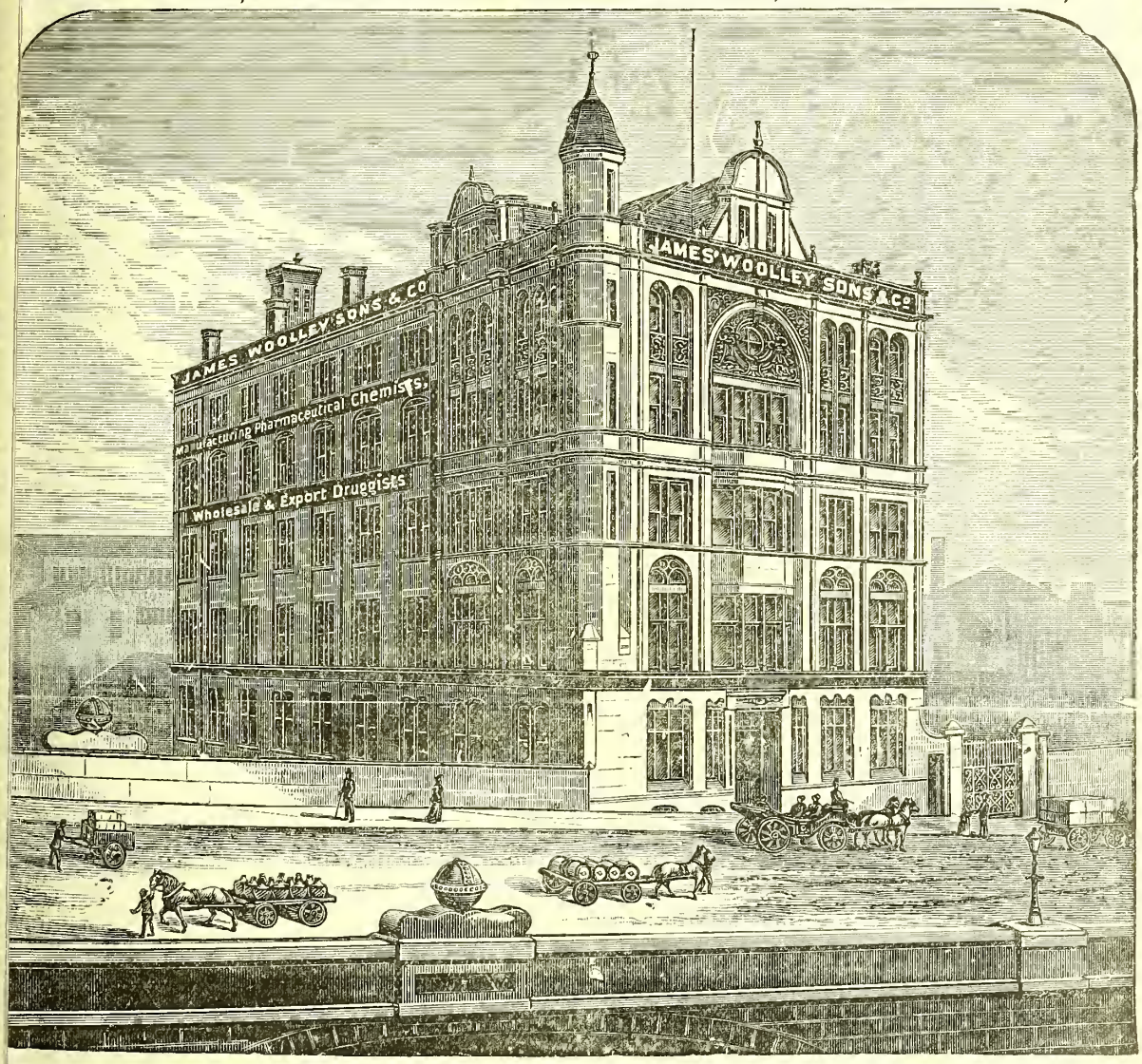
MANUFACTURING PHARMACEUTICAL CHEMISTS,

WHOLESALE AND EXPORT DRUGGISTS,

DEALERS IN EVERY DESCRIPTION OF

RUGGISTS' SUNDRIES, CHEMICAL AND PHARMACEUTICAL APPARATUS, SURGICAL INSTRUMENTS, &c.



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COLONIAL AND FOREIGN INDENTS THROUGH BRITISH SHIPPERS.

Prices Current of Drugs, and Illustrated Catalogue of Druggists' Sundries and Surgical Instruments, forwarded free.

DAVIES, GIBBINS & CO.

(For upwards of 20 years with John Richardson & Co., Leicester, Limited),

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SOLUBLE PEARL-COATED PILLS

AND

FLEXIBLE GELATINE CAPSULES.

Special NET prices.

Pil. Ferri Blaud, in 10-gross tins, 3½d.; 100-gross tins, 3d. per gross.
In 1-gross metal-capped bottles, 52/- per gross.
Little Aperient or Liver Granules, in metal-capped tubes (40 in each), coated white, 30/- per gross.

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			10-gross lots.	100-gross lots.
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	Pulv. Sapo. Hyspan ...	aa „ iv.		
	Gingerin	„ ii.	5*d.*	4*d.*
	Ft. Pil. xii.			

"LITTLE" APERIENT PILL.

„ 265.	Aloin	gr. $\frac{1}{10}$		
	Podophyllin	„ $\frac{1}{5}$		
	Ext. Hyoscy.	„ $\frac{1}{20}$		
	Jalapine	„ $\frac{1}{10}$		
	Ext. Nucis Vom.			
	Capsicine	aa „ $\frac{1}{20}$	5*d.*	4*d.*
„ 1.	Pil. Aloes et Ferri. P B. ...		5*d.*	4*d.*
„ 2.	„ „ Myrrh, P B. ...		1/-	11*d.*
„ 4	„ Colocynth Co. P B. ...		10*d.*	9*d.*
„ 5.	„ „ et Hyoscy., P.B.		1/-	11*d.*
„ 8.	„ Ipecac. et Scillæ, P.B. ...		6*d.*	5*d.*
„ 10.	„ Rhæi Co., P.B.		5*d.*	4*d.*

BLAUD'S c. ARSENIC.

„ 140.	Pil Blaudii	gr. v.		
	Acid. Arseniosi	„ $\frac{1}{50}$	5*d.*	4*d.*
„ 141.	Pil. Blaudii	„ v.		
	Acid. Arseniosi	„ $\frac{1}{100}$	5*d.*	4*d.*
„ 142.	Pil Blaudii	„ v.		
	Ferri Arsenias	„ $\frac{1}{36}$	5*d.*	4*d.*
„ 143.	Pil Blaudii	„ v.		
	Ferri Arsenias	„ $\frac{1}{50}$	5*d.*	4*d.*

DANDELION PILLS.

No. 272.	Ext. Taraxaci			
	„ Anthem			
	Pulv. Rhei	aa gr. i.		
	„ Aloes Barb.			
	„ Zingib.	aa „ ss	6*d.*	5*d.*
	Ol. Carui	„ ½		

TIC PILLS.

„ 208.	Quineti			
	Ferri Sulph.	aa gr. ss		
	Ext. Belladon.	„ ¼		
	„ Colchici Acet.	„ ss		
	„ Hyoscyami			
	Camphoræ	aa „ i.	1/-	11*d.*

TONIC PILLS.

„ 131.	Ferri Sulph.	gr. i.		
	Ext. Gentianæ	„ iii.	5*d.*	4*d.*

PENNYROYAL PILLS.

„ 247.	Ol Pulegii	gtt. ⅛		
	Pil. Aloes et Ferri	gr. iv.	6*d.*	5*d.*

QUININE PILLS.

„ 250.	Quininæ Sulph.	gr. i.	8*d.*	7*d.*
„ 251.	„ „	gr. ij.	1/2	1/-

PERMANGANATE OF POTASH PILLS.

„ 242.	Potass. Permang.	gr. i.	6*d.*	5*d.*
„ 243.	„ „	„ ij.	9*d.*	8*d.*

FLEXIBLE GELATINE CAPSULES.

Bals. Copaibæ, min. 10	8/6 per 1,000;	in boxes containing	36,	5/6	per doz.
Blaud's=two pills	13/-	„ „ „	30,	7/3	„
Cascara Sagrada=½ drachm Liq. Ext. ...	12/6	„ „ „	30,	7/3	„
Compound Senegæ	14/-	„ „ „	24,	7/3	„
Copaibæ, Cubebæ, and Santal.	22/-	„ „ „	36,	12/-	„
Creasote, min. 1	8/6	„ „ „	36,	5/6	„
„ „ 2	11/-	„ „ „	36,	6/6	„
Guaiacol, „ 1	12/6	„ „ „	36,	8/6	„
„ „ 2	14/-	„ „ „	36,	10/6	„
Ol. Santal. Flav., min. 10 (English warranted)	32/-	„ „ „	24,	12/-	„

SPECIAL RATES TO LARGE BUYERS.

"EFFERVESCENTS"

(Wm. R. Warner & Co.)

LITHIA

n elegant, portable, and effectual remedy in **Gout, Rheumatism, G vel, Stone in the Bladder, Eczema, Bright's Disease, &c** In c pressed Lentiforms, each containing five grains of Citrate of Lithia, and a ding a convenient method for administering a definite quantity of s ple Lithia in a pleasant form, besides the advan'age of having fresh w r with each dose; pre enting a therapeutic value of a higher standard th the various spring waters, which oftentimes contain but an indefinite q tity of the necessary salt.

r Compressed Lithia Lentiforms are convenient for the preparation of a icial Lithia water, useful in the treatment of sub-acute and chronic c s of Rheumatism, Rheumatic Gout, Uric Acid, Diathesis, Renal Calculi c posed of Uric Acid, and Irritable Bladder from excess of acid in the u e. The dose of artificial Lithia water as prepared from Warner & Co's C pressed Lentiforms can be regulated very readily by dissolving one or m e in any desired quantity of water, from a tumblerful to a pint, quart, o allon, as may be in licated. Per Bottle, **1s. 3d.**

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GRANULAR EFFERVESCENT BROMO-LITHIA.—*Each Dessert-s oonful contains*—R *Salicylate Lithia*, 10 *grs.*, *and* R *Bromide Soda*, 10 *grs.* —Bromo-Lithia is an extremely potent and palatable effervescent combination of the above ingredients. Physicians appreciate its value in the treatment of these affections for which Lithia is prescribed. Bromo-Lithia is originated by W. R. Warner & Co. It consists of Salicylate Lithium, 10 grs., and Bromide Sodium, 10 grs., in each dessertspoonful.

It will be found to possess advan'ages over Salicylic Acid, combining, as it does, the potency of Lithium with Salicylic Acid as well as the sedative properties of Bromide of Soda.

Bromo-Lithia (Warner & Co.), being an effervescent salt, furnishes an *elegant* and *convenient* form for applying Dr. Garrod's methods. Per Bottle, **3s. 6d.**

VICHY

FFERVESCENT VICHY LENTIFORMS.—**Replacing the B tled Spring Waters, which are cumbersome and often of d btful strength medicinally.**—These Lentiforms present the remedy i portable, economical, and pleasant form, and ensure a definite strength a ll times. To prepare a draught as of the natural water, dissolve one L iform in a glass of pure water and drink while effervescing. For a w n draught use tepid water. Per Bottle, **1s.**

OMPRESSED LITHIA AND VICHY LENTIFORMS.—The large c pressed tablets known as "Lentiforms" are especially suitable for the e mpore preparation of effervescent mineral waters, and Warner's Effer- v ent Lithia and Vichy Lentiforms, specimens of which have been sent by M rs. F. Newbery & Sons, seem well adapted for presenting the remedies i portable, economical, and pleasant form, besides ensuring a definite st ngth at all times. The Lithia Lentiforms contain 3 grains (or 5 grains) o thium citrate each, and the Vichy Lentiforms are intended to replace t bottled spring waters. Since their first introduction the Lentiforms h been materially improved, and they are now capable of preservation f a much longer period than formerly, without impairment of their m icinal qualities. (*Pharmaceutical Journal*, June 20, 1896.)

BROMO SODA

(REGISTERED.)

"I have used Effervescing Bromo-Soda very extensively, and can cheerfully recommend it to my professional brethren. The addition of the grain of Caffein Hydrobromate to the 30 grains of Sodium Bromide I think a most happy idea. I recommend your Bromo-Soda because I have used Sodium Bromide for years instead of the Potassium Bromide. Sodium Bromide is not a foreign salt in the system, is much less depressant, can be used where the heart is extremely weak, and does not impair the integrity of the muscular tissue; does not cause bad breath, neither does it cause acne, nor impair pharyngeal sensibility. It is much more palatable, and has the happy faculty of agreeing with the stomach, where the corresponding Potassium Salt often gives us so much trouble. I find Effervescing Bromo-Soda very valuable in cases superinduced by over-work of a mental kind; in fact, at times when over-worked, I have refreshed myself with a little in water.

"I use Effervescing Bromo-Soda in dessertspoonful rather than teaspoonful doses, desiring to spare myself the necessity of repeating. I put this quantity in a glass not quite half full of water, order it drunk while effervescing, and find it to operate as if by magic."—J. K. Bauduy, M.D., LL.D. Per Bottle, **3s. 6d.**

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SOLE DEPOT IN GREAT BRITAIN—

F. NEWBERY & SONS,

Chemists are invited to send for new and full list of W. R. Warner & Co.'s Soluble Coated Pills and other "Galenicals," revised to current date, with complete formulæ.

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BOX'S

FAR-FAMED INDIGESTION PILLS

RE-CHRISTENED BY THE AMERICANS

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"Yours are the most valuable pills any one can take. They never impair nor weaken, but give strength and vigour. For Indigestion, I may say they are the BEST IN THE WORLD."

From the Rev. B. DINNICK,
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NEVER HAD ANYTHING SO EFFECTUAL
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"I would not be without them for a FORTUNE."
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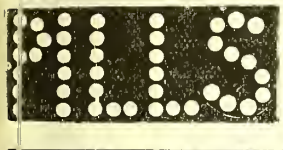
Ingredients are the Best.

Strength the Highest. Price Lowest,
Quality of Drugs considered.



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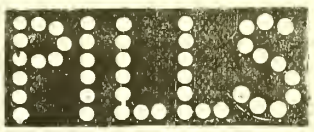

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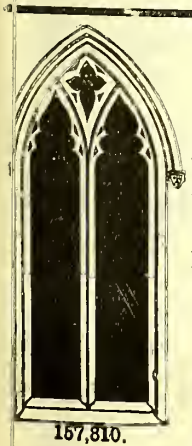

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Of late a spurious article has been offered for sale, put up in imitation of the genuine one even to copying the Pamphlet, Wrapper, and Labels. To protect the public from, and facilitate proceedings against, such frauds, the Proprietor has registered the Trade Mark here shown, a reduced copy of which will be found on the outside label on every bottle put up after this date. As a further security, the name "DR. BOW'S LINIMENT" (also a Trade Mark) appears in the Government Stamp.

BARCLAY & SONS, LIMITED, LONDON
RAIMES, CLARK & CO., EDINBURGH & YORK

For the Proprietor,
December 1st, 1891.
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HIGHEST AWARD, CHICAGO, 1893.

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MORPHINE & CODEINE
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CAPSICINE.
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Absolutely PURE, and answers all Official Tests.
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TELA VESICATORIA *or Blistering Tissue.*
By far the most efficient Cantharides Vesicant in existence.

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Sp. Ether Nit.
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All of ENGLISH MANUFACTURE, and guaranteed B.P. strength.

NO LIBEL.—JUSTIFICATION PLEADED.

In *re* Cod-liver Oil Emulsion (Kemp's).

The following are the statements in question:—

It Rapidly goes off ... ... by rail.
It Separates ... ... when digested.
It Contains No Cod-liver Oil ... taste or smell.
It Spoils the Sale... ... ... of inferior kinds.
Adulterated by 50 per cent. ... of matter other than Oil.

In spite of the truth of these allegations, Kemp's Cream Emulsion of Cod-liver Oil is a good line to adopt.
It creates a sale for Emulsion in districts hitherto known for their non-Emulsifying tendencies.
Price in bulk, **7/-** per gallon.
It is now put up in 7 different sizes and styles ready for sale, and buyers' names printed on labels free for 3-doz. lots and upwards. Samples and Illustrated Circular free on application.

W. KEMP & SON. Wholesale Druggists and Manufacturing Chemists, **HORNCASTLE.**

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The Proprietors of the above well-known Pills have decided in the interest of the Retail trade to stop all further cutting and allow a reasonable profit, and in so doing hope to secure the goodwill and co-operation of all respectable Chemists and Druggists.

A GOOD PILL and GOOD PROFIT.

1/1½ size	Wholesale Price,	*10/-*	per dozen.
,, ,, ...	Minimum Retail Price,	*1/-*	,, box.
2/9 ,, ...	Wholesale Price,	*24/-*	,, dozen.
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The proprietors will be obliged if Chemists will report all cases of Cutting to

THE SECRETARY, PROPRIETARY ARTICLES TRADE ASSOCIATION,
2 and 3 STONECUTTER STREET, E.C.,
who will see that the Cutting is stopped or supplies withheld.

Messrs. LAMBERT & CO. will be pleased to supply Handbills, with Name and Address, CARRIAGE PAID, on receipt of Business Card direct to 173 Seymour Place, London, W.

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Maintain their high reputation against all comers for general excellence of quality and finish.

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Antipyrin
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Chloralamid
Ipecac. Powd.
Ipecac. & Opium
Pepsine, B.P.
Phenacetin
Potass. Bicarb.
Potass. Brom.

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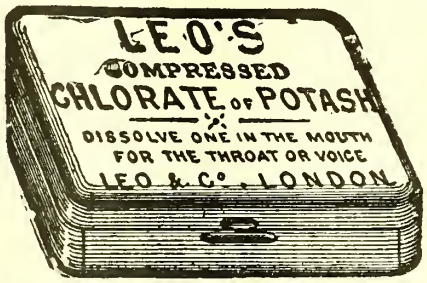

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Salol
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Sulphonal
Sulphur Compound
Urethane
Voice (Potass. Chlor., Borax and Cocaine)

COMPRESSED CHLORATE of POTASH.
CHLORATE OF POTASH & BORAX.

Quotations given for large and small quantities.

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RECOGNIZED AS THE STANDARD IN THE UNITED STATES.

Write for Sample and Quotation, naming quantity desired.

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ESTABLISHED 1852.

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PURE & RELIABLE.

All Antiseptic Precautions most carefully observed. PIN-POINTS GRATIS WITH VACCINE WHEN REQUESTED.

CALF, Tubes, 2/-; Half-Tubes, 1/- each. **POMADE**, especially active, for Export, 5/-, 10/-, 20/- each.

HUMAN, from healthy children only, microscopically examined and source quoted. Tubes, two-thirds full, 1/8 each; one-third full, 1/- each. Tubes, two-thirds full (in every respect equal to those mentioned above, but without source), in quantities for export, £5 per 100.

Sole Agents for **DR. WARLOMONT'S CALF VACCINE.** For price see Calf Vaccine above.

P.O.O. (including postage, and crossed London and Westminster Bank), with orders payable to EDWARD DARKE, Sec.

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ACIDS, ÆTHERS, AND OTHER CHEMICALS CAREFULLY TESTED AND PACKED FOR EXPORT.

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MANUFACTURERS OF Acids, Æthers, Sp. Æther Nit., Sp. Ammon. Arom., Liq. Ammonia, Soldering Fluids, &c., and preparations of Alum, Animal Charcoal, Antimony, Baryta, Bismuth Salts, Strontia, Zinc, &c.

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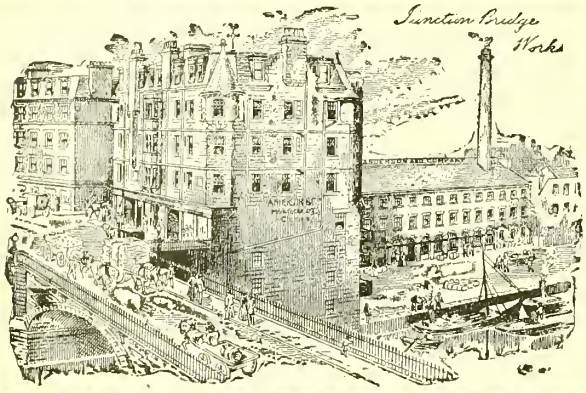

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The Hon. Surgeon to his Excellency the Viceroy of India prescribes "CLARKE'S BLOOD MIXTURE" largely, and speaks highly of its efficacy in skin affections, &c.—A. JOHN & CO., Chemists, &c., Agra, India.

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(Late Davy, Yates & Hicks, and Arthur S. Hill & Son), ESTABLISHED A.D. 1755,

Wholesale and Export Druggists

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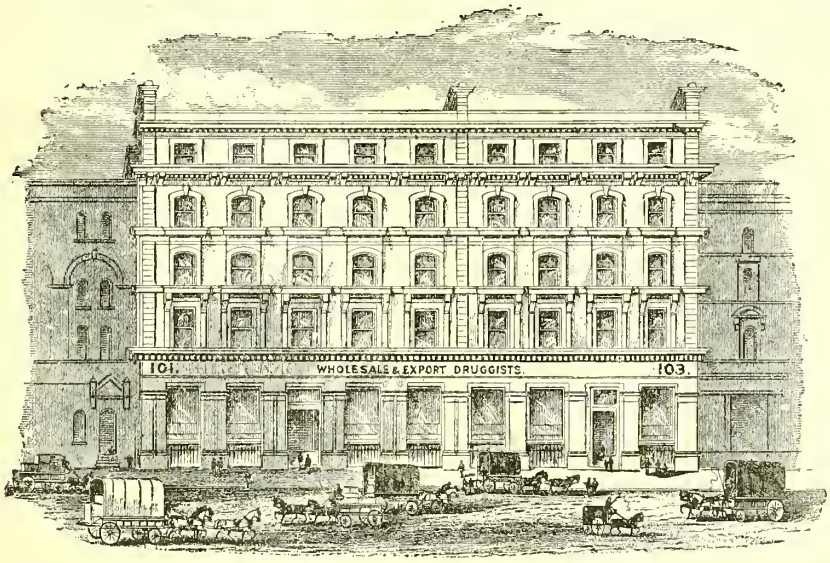

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101 and 103 SOUTHWARK ST., LONDON.

Memo. from

Bleasdale Limited.

TELEGRAMS: "BLEASDALE YORK."

NATIONAL TELEPHONE NO. 92.

York, APRIL 16, 1897.

To Colonial Buyers and Shippers Throughout the World.

GENTLEMEN,

WE SOLICIT A TRIAL OF OUR

TASTELESS PEARL-COATED PILLS. Buy from us.

"The beautifully-finished Pearl-Coated Pills."—*C. & D.*, Aug. 29, 1896.

ANTIBILIOUS	3/6 lb.	**QUININÆ SULPH.**, 1, 2, and 3 grs.	12/- lb.
BLAUD, white or Pink	2/6 „	**RHEI CO.**	3/6 „
CHAMOMILE	3/6 „	**SCILLA CO.**	3/6 „
COLOC. ET HYOS.	8/- „	**STEEL AND PENNYROYAL**	4/- „
COMMUNIS	3/- „	**LITTLE LIVER**, white or pink	18/- „
IPECAC. C. SCILLA	4/- „	**PINK IRON APERIENT**	4/- „

GRANULAR EFFERVESCING PREPARATIONS. Buy from us.

"A good all-round exhibit of Granular Effervescing Preparations in their most popular combinations."—*C. & D.*, Aug. 1, 1896.

MAGNES. CIT. GRAN.—
Good quality, 28-lb. tins, **62**/- cwt.; 120-lb. drums, **60**/- cwt. We make a cheaper grade, but recommend this.

N.B.—All kinds of Granular Preparations kept in stock, or made to order.

CHEMISTS' "OWN" SPECIALITIES. Buy from us.

ASTHMA POWDER, 1/- tins, with handsome lithographed labels, **72**/- gross.

BALL-ROOM FLOOR POLISH, 1/- tins, with perforated lids, **72**/- gross.

BAKING POWDER, ¼-lb., ½-lb., 1-lb., and 2-lb. tins, **21**/-, **40**/-, **76**/-, and **144**/- gross.

BROWN BOOT POLISH, 6*d.* bottles, **36**/- gross.

CITRATE OF MAGNESIA, ¼-lb., ½-lb., and 1-lb. tins, **30**/-, **54**/-, and **96**/- gross.

CEMENT OR LIQUID GLUE, 6*d.* and 1/- bottles, **36**/- and **72**/- gross.

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NURSERY HAIR LOTION, 4-oz. and 8-oz. bottles, **40**/- and **75**/- gross.

PETROLEUM EMULSION with HYPOPHOSPHITES, 8-oz. bottles, **108**/- gross.

PILLS—BLAUD'S, 1 gross in Amber triangular bottles, **60**/- gross.

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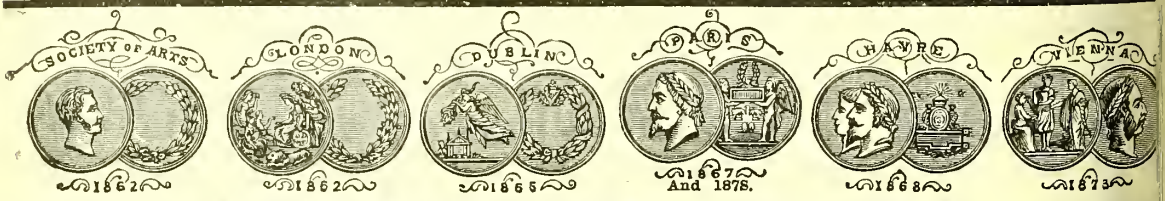

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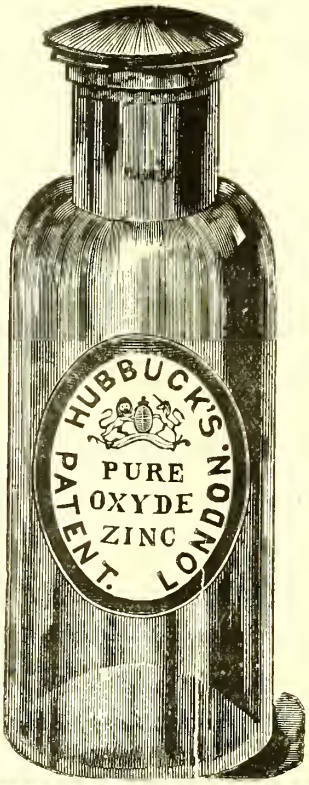

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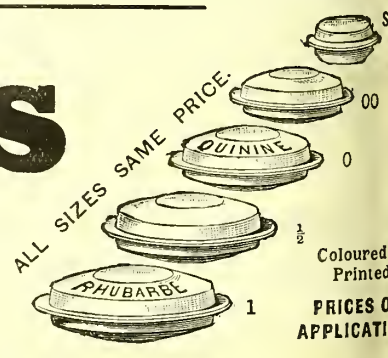

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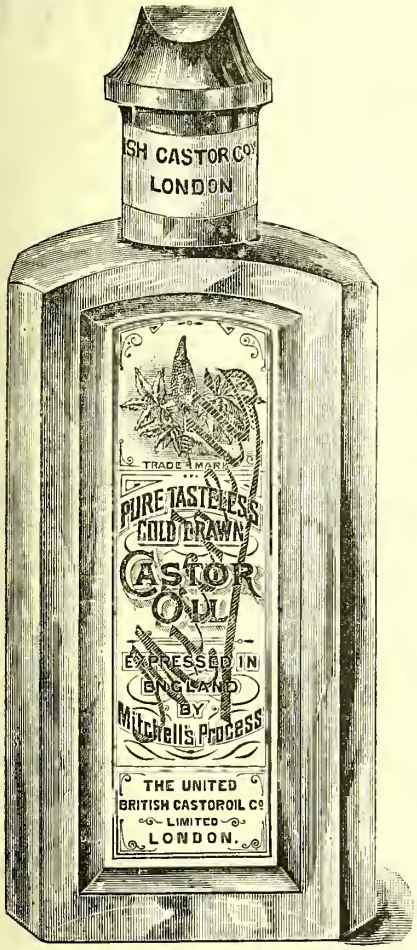

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with the window?

THE SUN IS UPON US

And what are we to do
To avoid loss,
To avoid confusion,
To avoid despair
in the window?

THE SUN IS UPON US

And here is a
paying antidote.

Spring is with us, and Summer will soon be here. The sun will quickly begin to make himself felt. Pretty labels, fine tints, and the finish generally of nicely-got-up goods fare badly in the sun. Who has not also seen syphons burst, cod-liver oil turned, capsules stuck *en masse*, perfumes half empty, mixtures exploded, and showered over the whole, in many windows in the summer. It is not only an annoyance, but a loss; and how to turn a **LOSS** into a **GAIN** is well worth the consideration, and the trial, of every Chemist in business for himself.

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If you will but take her.

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IMPORTANT!

VERY IMPORTANT!!

Daisy has now the greatest sale of any proprietary Headache remedy in the United Kingdom. Our sales for the first 15 months were 500,000; for the second year 2500,000; and we are now selling an average of **6,000,000** Daisies per year. We are working at our top capacity, pushing forward as rapidly as possible new arrangements for summer. We regret that at the present moment we are a little behind orders. However, we are extending our plant in every direction, and hope to successfully cope with a doubly increased trade in the immediate future.

PRICES.—20 Daisies in each box, **10/9** per dozen; 3 dozen, **10/3** per dozen; gross lots, **9/9**; 10 Daisies in each box, **5/8** per dozen.

Discounts, 7½ per cent. cash with order, 2½ per cent. one month, net after.

CARRIAGE PAID.

Three dozen 1s. 1½d. Daisies generally sell at 1d. each, or about £3. The profit thus equals £1 11s. on an outlay of £1 8s. 6d., or above 100 per cent. profit.

10 PER CENT. PROFIT ON THE BULK OF THE SALES. NO CUTTING.

UNDER THE P.A.T.A.'S MATERNAL WING.

QUICK TURNOVER. SELLS AT THE NIMBLE 7½d. SAMPLES 1d.

DAISY, Ltd., Faraday Works, Leeds.

Director—COUNCILLOR WORMALD.
Secretary—T. PEARSON, F.G.S.
Governing Director—JOHN R. ELLIS, Esq.

Copyright.

See 4 previous pages and following page.

DAISY, Ltd., Faraday Works, LEEDS

DAISY can be supplied in dozen lots on sale or return if desired. *Write for particulars.*

Fully Protected.

See 5 previous pages

PETER TYRER'S 1D. LINES

CHEMISTS SAVE TIME AND MONEY

By selling my "Plain Label"* Lines. Should remit prices quoted for sample ¼-gross lots. If not satisfactory I will pay carriage back, and return cash.

***PENNY PETROLEUM JELLY** Per gross
In ¼-gross tin boxes .. .. 5/-; double size, 7/-

PENNY CEMENT *(largest and best)*
On ¼-gross cards 5/3

***PENNY SEIDLITZ POWDERS**
¼-gross glass-top boxes .. .. at 6/-

***SALINE POWDERS**
½-gross glass-top boxes .. .. at 2/9

PENNY LIQUID GLUE
On ¼-gross cards .. .. at 5/3

***PENNY GUMS**
In 1-oz. open parcels .. .. at 6/3

***PENNY GLYCERINE**
¼-gross glass-front boxes .. .. at 6/6

***PENNY CASTOR OIL**
¼-gross glass-front boxes .. .. at 6/-

***PENNY BLACK INK**
In 1-oz. open parcels .. .. at 4/3

***GOLDEN PETROLEUM JELLY** Per doz.
4-oz. glass, metal screw cap 3/-
8-oz. " " 5/-
This is warranted pure, and is a thoroughly good line.

***PENNY HAIR OIL** Per gross
In 1-oz. open parcels .. .. at 5/9

PENNY FURNITURE CREAM
In 1-oz. open parcels .. .. at 6/9

PENNY INSECT POWDER
In perforated tins .. .. at 4/6

***PENNY MENTHOLS**
On ¼-gross cards .. .. 6/9 and 7/6

***PENNY** *(Tasteless)* **PILLS**
6 in a box, ¼-gross cards 4/6

SPECIAL NEW LINE.

***PENNY** *(Tasteless)* **PILLS**
4 Pills in a box, ¼-gross cards 3/9

***PENNY SOOTHERS**
Black teats, fitted complete with Shield, Union, and Cord, on ¼-gross cards at 7/-; this is a good line, and sells freely.

***PENNY TOOTH TINCT.**
With pool complete, ¼-gross cards 5/6

"I appeal to every sensible person."

SAUCES.

See Special Price List.

***PENNY CORN SOLVENT** Per gross
On ¼-gross cards 5/6

PENNY CAMPHOR SQUARES
¼-gross boxes 7/-

***FULLER'S EARTH POWDER**
1*d.* Boxes, in ¼-gross glass-top boxes 3/6

***VIOLET POWDER**
1*d.* Boxes, in ¼-gross glass-top boxes 4/

***GOLD-BEATER'S SKIN**
1*d.* Packets, on ¼-gross cards 3/6

***COURT PLASTER**
1*d.* Packets, on ¼-gross cards (Black, White, or Pink) 4/-

***TOOTH ENAMEL**
(Gutta Percha Enamel for Stopping Decayed Teeth.)
1*d.* Packets, on ¼-gross cards.. .. .. 4/-

For sums under £1 please remit Postal Order, not Cheque, and oblige, [3]

PETER TYRER, 30 Southall Place, Long Lane, **LONDON, S.E.**

DIAMOND JUBILEE GOODS.

To avoid necessity of overstocking, we have arranged Assorted Parcels as under:—

Parcel A.—Cost, 10/6; realises retail, 17/6
" B. " 20/; " " 35/-
= 40 per cent. Profit on Returns.

These parcels contain an assortment of various goods relating to Jubilee. All good saleable lines.

JUBILEE PUFF BOX.

Decorated tin, with photos of the Queen and all the Heirs to the Throne, in 6 or 7 Royal colours, 3/- doz.

SMELLING BOTTLES.

Well recommended.

No. 374.	Crystal glass, heart shape	2 9 doz.
" 377.	Coloured glass, 3 colours, heart shape...	3/6 "
" 375.	Small heart	2/6 "
" 376.	Upright square, well cut, Maltex stopper	4/- "

QUEEN OF HEARTS SALTS,

Filled and boxed.

A very smart line, applicable to this year, 4/- doz.

SHIRLEY BROS.

105 & 107 WHITECROSS STREET, E.C.

May be had from the Leading Manufacturers and Wholesale Houses.

ADVERTISING BALLOON CO.

ALTRINCHAM, ENGLAND.

EXAMINED & GUARANTEED

SEAMLESS
8 Ply, XXX Quality
(English Make.)

MAKERS OF ALL KINDS OF
RUBBER SURGICAL APPLIANCES.

SOLE MAKERS OF
VENUS BRAND RUBBER GOODS,
Shown on Envelope at side.

By Royal Letters Patent.
NEW RATTLE DRUM SELF-CLOSING BALLOON.

These Balloons are fitted with a small automatic tube, which by a simple mechanical arrangement will keep the Balloon inflated for hours. Require no tying. If inflated before leaving the establishment, the purchaser is compelled to carry it expanded through the streets, thus making a splendid advertisement, as well as an amusing Rattle Drum for the children.

The New Balloons can be had in assorted coloured Suns, Moons, and Stars on one side, and customer's advertisement on the other, up to 60 letters; or assorted plain colours, with advertisement one side and trade figures the other, such as Carboys, Pestle and Mortar, Hats, Caps, Boots and Shoes, Boys' Suits, &c., &c., to suit any trade. Improved long nozzle Balloon from 12/6 per gross.

DYING DEVIL, with Nose and Ears.—Dies when he squeaks, and squeaks when he dies. 12/6 to 16/- gross.
ALABAMA COON, with Feathers, 12/6 to 14/6 gross.
SQUEAKERS from 3/- gross. All the above with advertisements.

Sample Rooms—Newton St., PICCADILLY, MANCHESTER.
Samples sent on receipt of Postal Order 1s. to 5s.
Agents only through British Merchants. Special terms to Shippers and the Wholesale.

HOMŒOPATHIC MEDICINES

First Established Homœopathic Chemist.

JAMES EPPS & CO.

(LIMITED),

48 Threadneedle Street,
London, Eng.

BOWDLEAR'S FLOOR WAX

Testimonials from the most prominent teachers in the United States.

Testimonials from the most prominent teachers in the United States.

Pulverised. For Dancing Floors. Is not white. Will not ball on the Will not soil clothes. All ready. Anybody can apply it.

The floor must be clean and free from oil. Sprinkle, and the dancers do the rest. Put up in pound packages, in cases of 33 pounds.

One pound is sufficient for a floor space of 10,000 square feet, and it wasted will be found to go four times as far as anything else on the ma No dust is another feature in its favour.

SAMPLES SENT ON REQUEST.

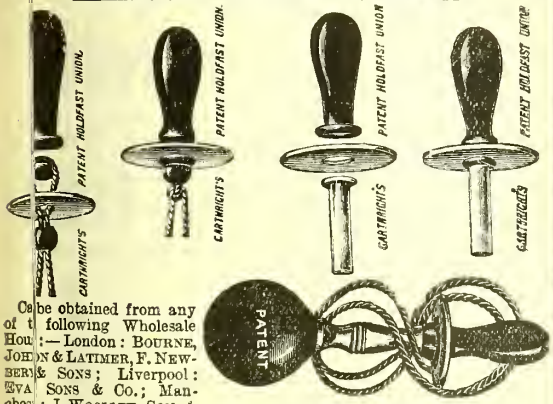
W. H. BOWDLEAR & CO., 149 Pearl St., Boston, Mass., U.S

J. S. CARTWRIGHT,

Patentee and Manufacturer of all kinds of

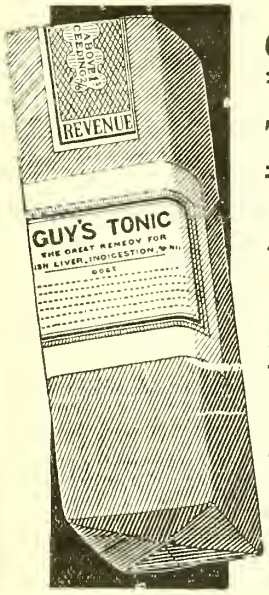
PACIFIERS FOR CHILDREN WHEN TEETHING, FOOD REGULATORS, BOTTLE UNIONS, &c.

75 Ford St., Hockley, Birmingham



NIGHTINGALE PACIFIER
BALL WHISTLE & TEAT

Can be obtained from any of the following Wholesale Houses:—London: BOURNE, JOHNSON & LATIMER, F. NEWBERY & SONS; Liverpool: EVANS SONS & Co.; Manchester: J. WOOLLEY, SON & Co.; Birmingham: SOUTHALL BROS & BARCLAY; Sydney: ELLIOTT BROTHERS (LIMITED); Melbourne: FELTON, GRIMWADE & Co.



Guy's Tonic Sales Are Rapidly Increasing.

Write at once for Book of Seventy-six Pages. Full of information interesting to Chemists. Address:

Guy's Tonic Co.

12 Buckingham Palace Road, London, S.W.

ANTISEPTIC DRESSINGS.

ISDAMA TRADE SDAM MARK. BRAND.

Every package bears this Trade Mark in white letters on a red ground.

Please specify **MILNE'S** on orders not sent direct, to ensure getting Lord Lister's authorised preparations.

ABSORBENT WOOL. GAUZE. LINT.

OILED SILK. SURGICAL SPONGES. SHEETINGS. JACONETS. LIGATURES.

Enquiries from Chemists desirous of supplying local Institutions promptly attended to

JOHN MILNE, Antiseptic Dressings Factory, **LADYWELL, LONDON, S.E.**

SURGICAL LINTS, BANDAGES,

BLEACHED, GREY AND ABSORBENT COTTONS.

SURGEONS' TOW. PROTECTIVE LINT

TELEGRAMS "LINT LIVERPOOL."

WORKS: MARK ST. MILLS, LIVERPOOL.

THE LIVERPOOL LINT CO.

"THE ONLY GENUINE"
GOVERNMENT DISINFECTANT
CARBOLIC POWDER
PINK
IN DECORATED TINS
PRICES. PER GROSS
GREEN & BLACK 15% 6d Size 45/- 1/- " 90/-
BLACK & GOLD 6d Size 1,lb, 40/- 1/- " 2,lb, 60/-
ALSO IN CASKS & PACKAGES
FLUIDS, ACIDS, SOAPS ETC
CHEAPEST AND BEST HOUSE FOR CARBOLIC POWDER IN TINS
TO BE HAD FROM ALL WHOLESALE DRUGGISTS
THE GOVERNMENT SANITARY Co LONDON
THE GOVERNMENT DISINFECTANT PINK CARBOLIC POWDER USED BY MAJESTY'S GOVT
TRADE MARK
THE BEST & CHEAPEST CARBOLIC DISINFECTANT
GOVERNMENT SANITARY Co LONDON S.E.

CHLORIDE OF LIME!!
IN AIRTIGHT, WATERPROOF & ODOURLESS PACKAGES.
SILVER MEDAL I.H.E. 1884.
LIST OF PRICES
24 lb. Box 1. lb. 6/6
24 lb. " ½ lb. 7/-
24 lb. " ¼ lb. 8/-
24 lb. " (ASSORTED 1.lb ½ 16 & ¼ 16) 7/3
24 lb. " 1 GROSS 1p. 8/-
TRADE MARK
NATIONAL CHEMICAL Co
CHLORIDE OF LIME
N.C.Co. INVENTORS AND SOLE MAKERS
BEWARE OF IMITATIONS
TO BE HAD FROM ALL WHOLESALE DRUGGISTS!
NATIONAL CHEMICAL Co. LONDON.

DUSSEK BROS. & CO
MANUFACTURERS OF
SANITARY FLUID
Of all strengths, soluble in water to any extent, forming milky solution.
CARBOLIC ACIDS
Crude and pale, of all strengths.
CARBOLIC POWDERS
All Colours, containing 5%, 10%, 15% genuine Carbol Acid. Packed in Casks, Bags, and Tins of all sizes.
PATENT 'SANO' FLUI
A superior Disinfectant for Hospital and indoor use. Soluble in Water.
COAL TAR & ROSIN PRODUCTS, GREASES, OILS, VARNISHES, DUBBIN, AN PITCH of all kinds.
DUSSEKS WHARF, VERNEY ROAD, S.E
Telegrams "DUSSEK LONDON." Telephone No. 8,239.

THE CITY OF LONDON
SANITARY HEART.
DISINFECTANT, ANTISEPTIC, AIR PURIFIER.
A SAFEGUARD against EPIDEMICS and all INFECTIOUS DISEASES.
Retails at 3d.
EACH IN A BOX.
Trade price 2s. per dozen.
Cash with order, or through Wholesale Houses.
Also the PENNY
SANITARY PENDANT
4/9 per gross, in ½-gross boxes.
DEODORISER, VITALISER, INSECT DESTROYE
Keeps MOTHS & other INSEC from CLOTHES.
Retails at 3d.
EACH IN A BOX.
Trade price 2s. per doze
Cash with order, or through Wholesale Ho
ALSO THE
SANITARY 'SLATE
In red and gold or blue and silver frame 8/- per dozen.
Pleasant, Fragrant, and Ornamental.
SOLE PROPRIETORS AND MANUFACTURERS—
J. BEEDZLER & CO. (Established 1700.) 20 NORTON FOLGAT LONDON, E.C

SUPPLIED TO HER MAJESTY'S GOVERNMENT.

IZAL PREPARATIONS. IZAL

Antiseptic. Non-Poisonous. Non-Irritating.

IZAL is an emulsion of Izal Oil. Mixed with 200 parts of water it gives an antiseptic lotion which is non-irritating, non-poisonous, and very much more powerful and persistent in its action than pure Carbolic Acid on account of the insolubility and low volatilisation point of the Oil.

IZAL has now been in use in several of the large hospitals for 2 or 3 years, and all that is claimed for it has been amply confirmed.

Bacteriological research by eminent specialists, whose reports will be forwarded on application to Messrs. Newton, Chambers & Co., has shown the certainty and speed with which IZAL destroys even the most resistant of Bacteria.

As a general disinfectant, for economy and pleasantness, IZAL is second to none; and its persistent and non-poisonous properties have already rendered it invaluable in the cleansing of Bakehouses.

IZAL for medical use is indicated as an internal antiseptic, and should be employed in Typhoid fever and specific diseases, since it has been shown that, although itself non-poisonous, IZAL has the power of destroying the effect of the noxious alkaloidal products of Bacteria.

IZAL should be employed in Phthisis not only as a disinfectant, but also medicinally, with a view of combating the micro-organism in the tissues, and arresting the disease.

IZAL OINTMENT is *par excellence* the antiseptic application of the future. It is cooling and antipruritic, as well as antiseptic.

In skin diseases it is invaluable, for there is hardly a case of skin disease, as a well-known specialist recently remarked, in which at some period or another of its course, antiseptic and antiparasitic remedies are not indicated.

On account of its great persistence, it is especially useful in killing the resistant fungi of ringworm, favus, pityriasis versicolor, &c., and the parasites (pediculi, acarus, &c.).

IZAL Lint, Izal Gauze, and Wool are now prepared and put up, as it has been found how well wounds heal under the continued stimulating and antiseptic influence of IZAL.

IZAL SOAP, Medical and Toilet, contains a sufficient percentage of IZAL to render a remedy so persistent in its action of practical use in keeping the hands and body surgically pure—unlike carbolic soap, the action is not evanescent.

Every surgeon, accoucheur, and nurse should make a habit of always using IZAL soap.

IZAL TOOTH POWDER is a delicate, pleasant, and elegant preparation, and forms an admirable antiseptic for the mouth and teeth. Much of the early decay, produced by acid forming bacteria, might be arrested if IZAL were regularly employed.

IZAL CREAM is essentially a toilet preparation for the purifying, clearing, and softening of the skin, and is especially indicated in acne and pustular eruptions about the face.

IZAL is prepared for a variety of purposes, as :—

IZAL Emulsion for Disinfecting purposes	6d., 1/-, 2/6, and 4/6 per bottle.
IZAL Emulsion for Surgical and Internal Administration	1/6 & 2/6 per bottle.
IZAL Cream, in Tubes	1/1½ tube.
IZAL Soap, in 1-lb. or 3-lb. bars ...	3d. per lb.
IZAL Medical Soap, 3 tabs. in box...	2/- per box.
IZAL Toilet Soap, 3 tabs. in box ...	1/3 per box.
IZAL Lint 2/4, Cotton Wool 2/- per lb. Gauze 1/- per 6-yard length.	

(To be had from the Maker, JOHN MILNE, Antiseptic Dressing Factory Ladywell, London.)

IZAL Lozenges	1/1½ per box.
IZAL Ointment	1/1½ per jar.
IZAL Tooth Powder	6d. and 1/- per box.
IZAL Embrocation	1/1½ per bottle.

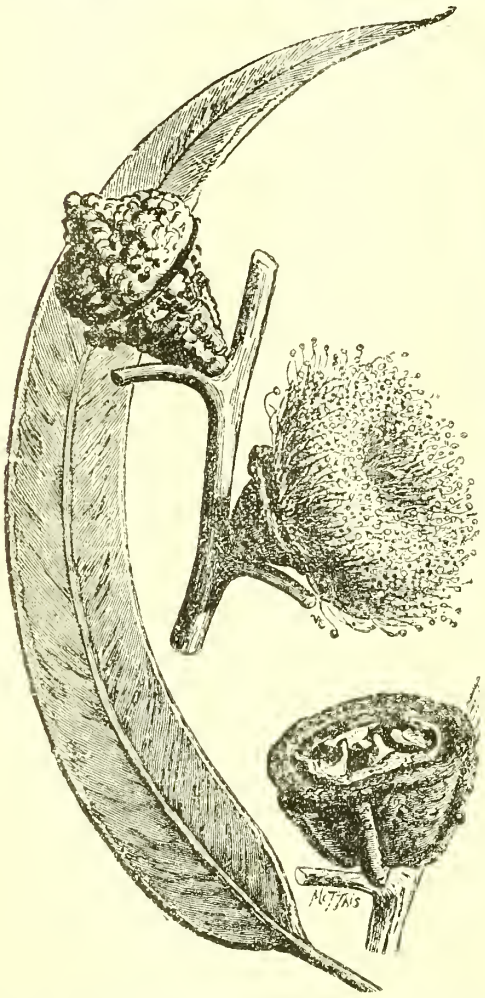
NEWTON, CHAMBERS & CO., Lim., Thorncliffe, Sheffield.

Liverpool Depot—50A LORD STREET, LIVERPOOL.

To be obtained through the Wholesale Patent Medicine Houses, or of

ALLEN & HANBURYS Ltd., Bethnal Green, LONDON, E.

PURE
EUCALYPTUS GLOBULUS
"PLATYPUS" BRAND



Leaf, Flower, and Seed of the Eucalyptus Globulus or "Blue Gum" Tree.

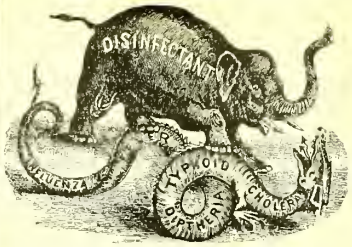
Guaranteed to contain 55 per cent. Eucalyptol.

TASMANIAN EUCALYPTUS OIL CO.

138 Leadenhall Street, LONDON, E.C.

Distilleries: HOBART, TASMANIA.

Registered Trade Mark.



THE ELEPHANT DISINFECTANT AND CHEMICAL CO.,

Neate St., Camberwell, London, S.E.

Disinfectant Fluid (turns white when mixed with water). In Bulk or Bottles in any size required.

CARBOLIC POWDER (pink or grey). In Bulk or Tinned in any size.

CARBOLIC TOOTH POWDER, Plain or Fancy Tins.

NAPHTHALENE TABLETS. MOTH & FLY BLOCKS.

CYCLE SOLUTION. CYCLE OIL (Burning or Lubricating). JELLY, for Ball Bearings and covering Bright Metals.

PNEUMATIC-TYRE REPAIR OUTFITS (3 Sizes).

Special Quotations to Large Buyers.

"ESSETS"

DISINFECTING FLUID.

"ESSETS"

DISINFECTING POWDER

"ESSETS"

DISINFECTING SOAP AND TOILET PREPARATIONS

One gallon of "Essets" Fluid is sufficient to make 1,000 gallons of Disinfectant.

Send for Corroborative Reports, Testimonials, Price Lists, and Particulars to—

A. GRANVILLE & CO., 102 High Street, Battersea, S.W.

AGENTS WANTED.

CAMPHORTAR

8/- per Gross.

CAMPHORTAR

A combination of Camphor, Eucalyptus, and Coal Tar. A powerful Disinfectant, Deodorizer, Insect Destroyer, and Air Purifier.

CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES

HEBDEN'S

CHLORIDE OF LIME

IN

AIRTIGHT, ODOURLESS, WATERPROOF PACKETS

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES

Samples on application.

Manufactured only by

W. C. HEBDEN, Albany Works, HALIFAX, **YORKSHIRE.**

Thomas Keating wants no more

han if a Chemist knows of anyone unlawfully substituting nother Powder for "Keating's" he will advise him to discontinue o doing, as there is not the slightest wish to prosecute a single hemist if it can be avoided.

Dear Sir,

It is evident that a substitutor not only defrauds the Purchaser and myself, but injures his respectable neighbouring Retailer, and on all three grounds if, after a warning as above, I am informed that substitution still goes on, I will then take the most stringent steps in the matter. Information will be held strictly confidential.

There may be an impression with some that I might always warn before proceeding (I have often done so); but my Solicitors advise me that this would be an improper course to adopt in view of the fact now so clearly established, that if one article is supplied regularly when another is asked for it is fraudulent, and that in the Public interest the Judges are determined to fully enforce this law whenever it is proved to be broken. If, therefore, I have to proceed I cannot promise to be lenient in future, as the means adopted and to be adopted—namely, witnesses being engaged under independent authority, rendering the testimony beyond suspicion—involves considerable expense, which must be borne by the offending party.

Yours respectfully,

THOMAS KEATING.

12 Bride Lane, London, April, 1897.

WILEY'S CHEMICAL ESSENCE

FOR

Lameness in Horses

HANDBILLS, with NAME and ADDRESS, SUPPLIED GRATIS.

50 YEARS' UNBROKEN SUCCESS.

SOLE MAKER AND PROPRIETOR:

FRANCIS E. ROOKLEDGE,
CHEMIST,
EASINGWOLD, YORK.

TO BE HAD OF USUAL WHOLESALE HOUSES.

THE

FLYODOOMO

FLY STICKERS

Catch Flies and Hold Them.

They are the Cleanest, Stickiest, and Best Fly Papers in the Market.

Carefully rolled up so that the Composition cannot possibly get outside.

Large Buyers should write for Samples and Quotations.

½d. and 1d. SIZES.

Samp Gross, Ca riage Pai on receipt of P.O. for 5/

Having fixed u new and improve machinery, the pr prietor can execute a orders with celerity and dispatch.

AGENTS—
London—Messrs. Sanger & Sons; Messrs. Barclay & Sons W. Sutton & Co.
Manchester — Messrs. Woolley, Sons & Co.
Thirsk—Mr. W. Foggitt.
York—Raimes & Co.
Liverpool—John Thompson.

JOHN H. SMITH
NEWARK-ON-TRENT.

Airtight & Odourless. **STEELE'S** Avoid Imitations.

SAMPLES & PRICES ON APPLICATION.

In ¼, ½ and 1lb. PACKETS.

PATENT) CONTAINING (PACKETS

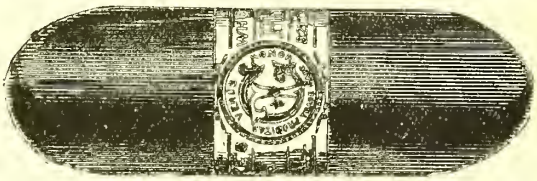
CHLORIDE OF LIME

J. C. STEELE & CO., Victoria Street, GLASGOW.

SPECIALLY SUITABLE FOR EXPORT.

Will keep for years in any climate.

WALKER, TROKE & CO.
WHOLESALE DRUGGISTS,
2 (late 65) Bath St., City Road,
LONDON, E.C.



SOLE MAKERS OF
GABRIEL & TROKE'S
GELATINE CAPSULED
HORSE BALLS

Alterative, Condition, Cordial, Cough Diuretic, Fever, Physic, Worm, Quinin Tonic Ba ls (Registered 81,291).

GELATINE-COATED DOG AND FOWL PILLS. SAMPLES FREE.

INSURANCE AGAINST THE RAVAGES OF MOTHS.

RUDKIN'S MOTH-BRICKS

(REGISTERED)

When USED ACCORDING TO DIRECTIONS, are thoroughly effective for 3 or 4 years. They have been perfected by many years of experience. They may be sold with confidence. They are attractively put up, and sell at sight if given the chance. They are really the cheapest thing of their kind in the market.

Price 6d. each, or 5/6 a dozen retail.

OF ALL THE LONDON WHOLESALE HOUSES, AND DRANE, CARDIFF.

In 1 and 2 gross boxes, or tin-lined cases for export of 50, 100, and 250 dozen.

BOXES

ESTABLISHED 18 39 ESTABLISHED

ROUND, OVAL, SQUARE, or FOLDING, for the

RUG, DRYSALTERY, AND CONFECTIONERY TRADES.

ABELS, WHEN PRINTED TO OUR INSTRUCTIONS, WE PUT ON PILL AND OTHER BOXES FREE OF CHARGE.

BOXES AND CASES FOR

ing Powder, Black Lead, Bottles, Camphor Ball, Capsules, Castor Oil, Cough Lozenges, Dispensing Powder, Eye Ointment, Fancy Boxes, Fuller's Earth, Folding Boxes, Glass Top Outers, Homœopathic Bottles, Insect Powders, Ink Ones, Jewellery, Lozenge, Lip Salve, Magnesia, Metal Paste, Marking Ink, Nipple Shields, Night Lights, Parcel Post, Pillles, Pills, Potash Tablets, Plasters, Salt Lemon, Seidlitz Powder, Starch Gloss, Soaps, Soda Powder, Syringes. Tapers, Tooth Powder, Violet Powder, &c.

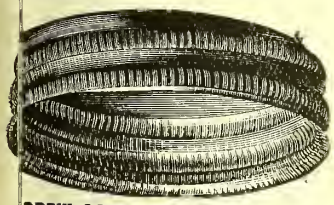
OBINSON & SONS, LIM., WHEATBRIDGE MILLS & HOLMBROOK WORKS, CHESTERFIELD,

And 55 FANN STREET, ALDERSGATE STREET. LONDON.

HE PATENT STOPPER, BOX & STAMP CO., LIM.

13 VICTORIA STREET, LONDON, S.W.

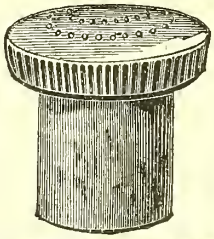
C. HOUGHTON BROWN,
Secretary.



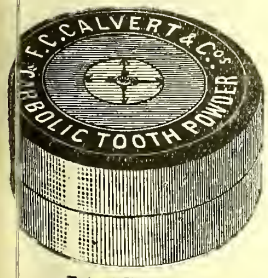
CREW CAPS OR CAPSULES.
Nickel, Zinc, Tin, or other Metal.

MANUFACTURERS of every description of

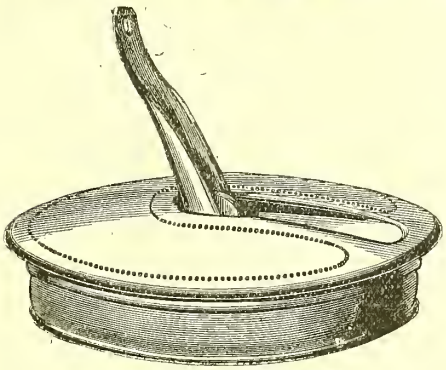
BOXES, STOPPERS, POMADE & SCREW CAPS, CAPSULES, &c., &c.



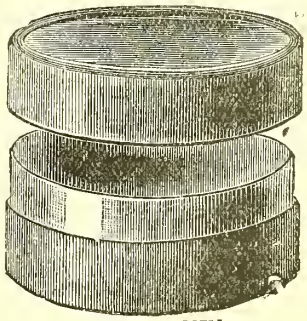
PATENT UNION STOPPER.



Patent No. 12711.
THE UNIQUE BOX.



PATENT LEVER STOPPER.



Patent No. 12711
THE UNIQUE BOX.

Samples & Prices for Wholesale Buyers on application.

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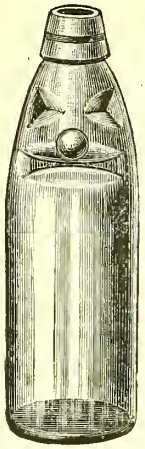
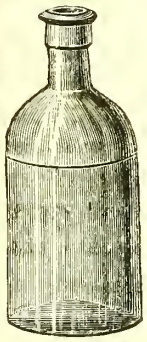
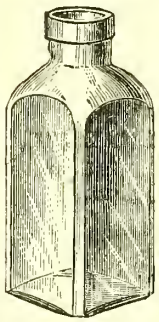
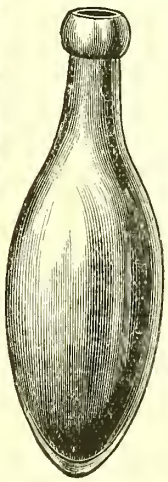
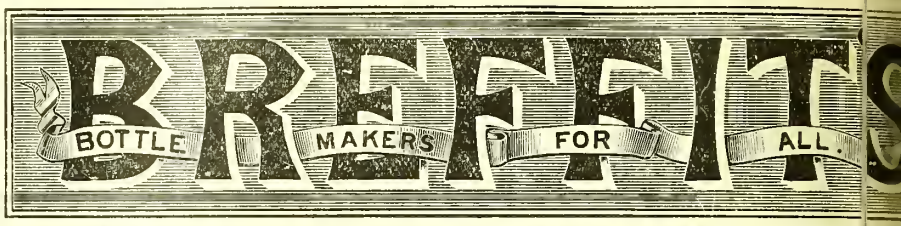










Send for our New Illustrated Pric

CHEMISTS' AND DRUGGISTS' BO

FEEDING BOTTLES ("*LA SPECIALITÉ.*")

NEW SERIES. REDUCED PRICES.

Best Black Rubber Tubing, Black Seamless Teat, Glass Unions.	Each Bottle	Paper
No. 95. GREEN BOTTLE, BOX TOPPED CORK		Gross
„ 96. WHITE „ „ „		„
„ 97. GREEN BOTTLE, SCREW GLASS STOPPER		„
„ 98. WHITE „ „ „		„

Above also supplied in Folding Card Cases attractively labelled, and in strong Card ... Brushes to order.

GRADUATED MEASURES (CYLINDRICAL or CONIC

½	1	2	3	4	10	16	20	32
5/6	5/6	6/6	7/6	8/-	10/6	12/-	13/6	16/-

If without Government mark of verification, 2/- to 3/- per dozen less.

SHOP ROUNDS (HAND-MADE STOPPERED).

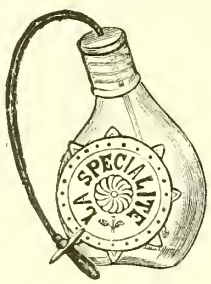
	1	2	4	8	12	20	30	4
N.M.	1/4	1/7	2/-	3/2	3/8	4/9	5/3	6/
W.M.	1/8	1/9	2/5	3/8	4/-	5/3	5/9	6/

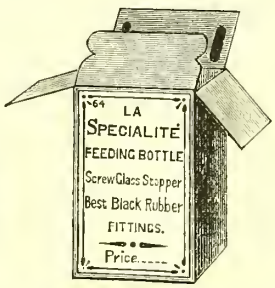
DISPENSING BOTTLES (FLAT, SQUARE, or OVAL

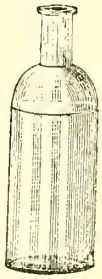
	2	4	6	8	12	16	32	
PALE BLUE	5/6	6/6	8/-	8/6	13/-	14/-	27/-	3
WHITE FLINT	6/6	8/-	9/-	9/6	15/-	18/-	22/-	3

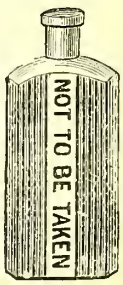
VIALS (DISPENSING)	1 dr.	2 dr.	½	1	1½	2	3	4	6
	2/9	3/-	3/3	3/6	4/3	4/9	5/-	6/-	7/6

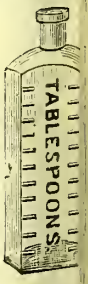
POISON BOTTLES (DARK BLUE & VEG. GREEN). PANEL











Breffit's Ltd., (AIRE & CALDER BOTTLE CO 83 UPPER THAMES ST.,

PORTANT TO BUYERS
OTTLES AND GLASSWARE

AT MANUFACTURERS' TRADE PRICES.

"Cemists' and Druggists' Diary," 1897, pp. 541 to 555.

PERFUMERS' BOTTLES.

ION' ESSENCE ROUNDS (Extra Heavy, White Flint Glass).

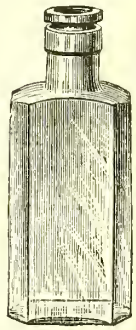
	½	1	1½	2	3	4 oz.	
... ...	6/-	7/6	8/-	9/-	10/6	11/6	per gross net.
Globe-ad Stoppers)	14/6	16/-	17/-	18/-	21/-	22/-	" "

BOR SQUARES (Very Attractive Bottle, White Flint Glass).

	2	3	4	6	8 oz.	
	9/-	10/6	11/6	13/6	16/-	per gross net.
D GLSS STOPPERS	18/-	21/-	22/-	24/-	32/-	" "

E SENCE (STOPPERED. White Flint Glass, Ordinary Weight).

	4	6	8	12	16	20 oz.	
-	20/-	21/-	22/-	36/-	40/-	50/-	per gross net.



IOESALE DRUGGISTS' BOTTLES.

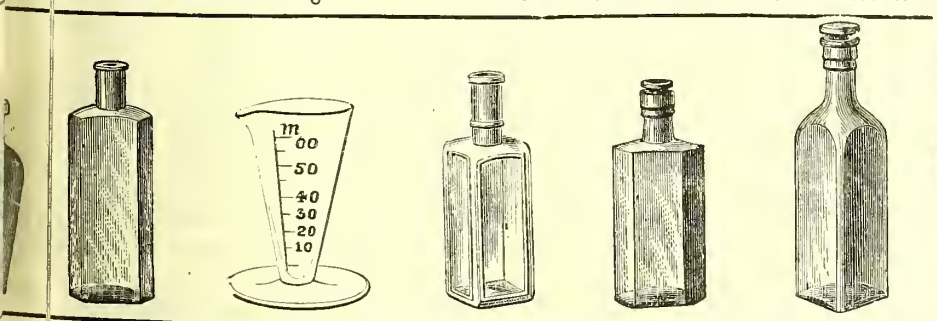
ESTRS & CORBYNS (PLAIN & STOPPERED. Dark Blue Glass).
SQUARES (N.M. & W.M. PLAIN & STOPPERED. Pale Green).
CARBOYS, ACID BOTTLES, STORE BOTTLES.

RS, JELLY JARS, HONEY JARS, FRUIT BOTTLES.

MINERAL WATER BOTTLES

(BALL STOPPERED and for CORKS).
in MBER and VEGETABLE GREEN. LEMONADES and GINGER
ALES, EGG & CYLINDRICAL SODAS.

NS with Best Metal Fittings. VAN BOXES and CASES for above.



(AIRE & CALDER BOTTLE CO.)

efit's Ltd., 83 UPPER THAMES ST., LONDON.

R. H. BARRETT'S PATENT CAPPED BOTTLE

The only REALLY PERFECT Bottle for Vaseline, Pomades, Dry Powders, &c.

PRICES. Tall Series:—

Fitted with STRONG METAL CAPS, CORK-LINED; in Various Colours, very attractive in appearance:

1 oz. 11/-; 1½ oz. 11/6; 2 oz. 12/-; 3 oz. 15/-; 4 oz. 16/6 per gross, &c.

Special Prices on application for Quantities.

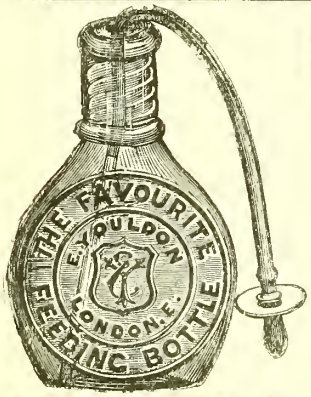
CHEMISTS' AND PERFUMERS' BOTTLES IN GREAT VARIETY, PLAIN OR STOPPERED.

R. H. BARRETT,

FLINT GLASS BOTTLE WORKS.

THE OVAL, CAMBRIDGE HEATH, LONDON, E.

Telegraphic Address—"FOREFRONT LONDON."



FEEDING BOTTLES

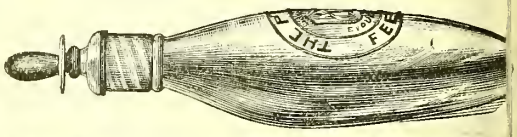
OF THE BEST MANUFACTURE.

PRICES REDUCED.

These are fitted with BEST QUALITY RUBBER ONLY, and are thoroughly Reliable.

TRY THEM. THEY SELL WELL.

A Trial Order Solicited.



E. YOULDON (Established 1840), **36, 38, & 40 Great Garden Street, LONDON, E.**

DISPENSING BOTTLES.

THE NORTH LONDON GLASS BOTTLE COMPANY

(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

4 oz.	7/6 per gross.	10 & 12 oz.	12/- per gross.
6 ,, 8 ,,	8/6 ,,	16 ,,	16/- ,,

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

½ oz.	3/6 per gross.	1½ oz.	4/6 per gross.
,,	3/9 ,,	2 ,,	5/- ,,

PLEASE NOTE.

Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 MIDLAND ROAD, ST. PANCRAS, LONDON.

Established 50 years. *Bankers—London and Westminster Bank.*

MILK STERILIZERS.

Nos. 1, 2, and 3.

HAWKSLEY'S PATENT.

Descriptive Pamphlets Free by Post.

DAILY INCREASING SALE.

See Diary, page 574.

May be had through the Wholesale Trade, or direct from

Patentee, 357 OXFORD STREET, LONDON, W.

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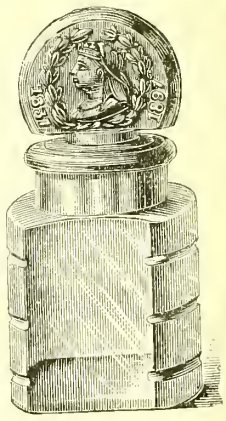
The Victoria Commemoration SMELLING SALTS BOTTLE

Assorted White, Blue, and Actinic Green.



Sample dozen sent on receipt of P.O. for 5s. 6d.

Every bottle guaranteed to be perfectly stoppered.

H. POTHS & CO.

3 CREECHURCH LANE, LONDON, E.C.

GLASS BOTTLES

FOR

DISPENSING.

FLAT (SQUARE & ROUND EDGES), OVAL, DIRECT SQUARE, OCTAGON, AND ROUND.

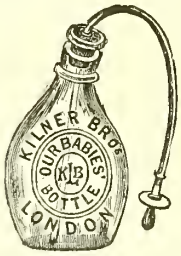
BEST AND ORDINARY QUALITY.

ALL SIZES AND GRADUATIONS.

FEEDING.

IN WHITE AND GREEN GLASS, WITH GLASS SCREW AND OTHER STOPPERS, AND WHITE, BLACK, OR BROWN RUBBER FITTINGS.

Buyers' Name put on Bottles free for certain quantities.

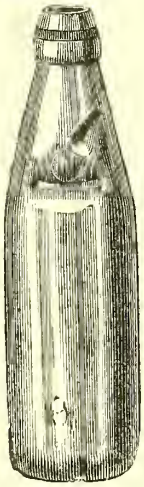


AERATED WATERS.

CODD'S AND OTHER STOPPERED BOTTLES.

ALL SIZES.

EXCELLENT QUALITY.



CORK BOTTLES IN ALL SHAPES AND SIZES.

PRICES MODERATE.

Revised Price List (Illustrated), containing full particulars of above and many other kinds, sent on application to

KILNER BROTHERS,

No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON, N.

SUPERIORITY OF THE "WILLARDBELL" SPECIALITI S

The "Willardbell" Truss.
(Patented.)
Acknowledged by the Medical Profession to be the Best. The principle is an entire departure from the old style. Scientific, Simple, and Successful. Never Rusts—always Clean, Cool, and Comfortable. Largely adopted throughout the Kingdom, on the Continent, and the Colonies.

The "Willardbell" Suspensory.
(Patented.)
With Flexible Aluminium Front. The Best on the Market.

The "Willardbell" Jock Strap.
Worn by all Athletes. Will prevent Strains, and afford much greater freedom of movement.

The "Willardbell" Ladies' Sanitary Bandage.
The Latest and Best out.

The "Willardbell" Elast Web Truss.
Specially made for Ladies, and el with Water Pad.

Chest and Lung Protecto s.

Ladies' and Gentlemen' Shoulder Braces.
For straightening the Shoulders nd expanding the Chest.

Abdominal Supports.
Of High-class Quality and Fini

Elastic Stockings, Knee C s, and Anklets.
In a variety of Colours.

AND OTHER APPLIANCES

NOTE.—We have no hesitation in bringing our Goods under your special notice, as they have already established a reputation amongst Docto and Chemists as of superior quality, finish, and efficiency.
We shall be pleased to submit on application Prices and Testimonials in reference to our Goods, with any other information required.
Chemists who take up Agencies for our manufactures will considerably increase the yearly turn-over of their business. A large number of ents have already been appointed in the United Kingdom.
We are well equipped for despatch of Export Orders, but wherever possible should prefer such to pass through the Shipping Agents in Englan

Manufacturers:—ACCRINGTON SURGICAL APPLIANCES CO., LIMITED, DALE STREET WORKS, ACCRINGTON. Tele. N 76

Sole Agents for South Africa—B. G. LENNON & CO., LTD., 75 Leadenhall Street, LONDON, E.C.

SOLD BY LEADING CHEMISTS THROUGHOUT THE UNITED KINGDOM.

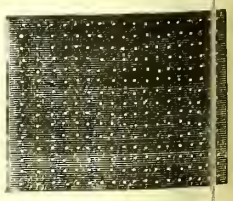
"THE LEICESTER"

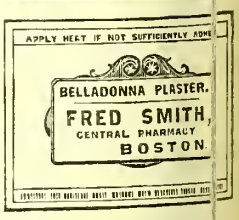
POROUS PLASTERS

IN RUBBER COMBINATION.

7½ by 5 Inches. In Boxes of 2 dozen.

BELLADONNA, on Scarlet Felt	Special Quality.	per dozen	4/-
BELLADONNA, on Cotton Cloth	Special Quality.	„	3/6
BELLADONNA with CAPSICUM, on Cotton Cloth	Special Quality.	„	3/6
BELLADONNA with OPIUM „ „	Special Quality.	„	3/6
BELLADONNA, on Red Canton Flannel		„	2/6
BELLADONNA, on Cotton Cloth		„	2/-
CAPSICUM „ „		„	2/-
STRENGTHENING „ „		„	2/-
STRENGTHENING, on Red Canton Flannel		„	2/-
STRENGTHENING, on Scarlet Felt		„	3/-





Other sizes (12 by 7, 9 by 6, &c.) at proportionate prices.

SUBJECT TO USUAL DISCOUNT.

Name and Address of any Customer printed without extra charge on lots of one gross, which may be assorte

MANUFACTURED BY

A. DE ST. DALMAS & CO., LEICESTE R.

(Formerly MOOR.)

THE SUCCESS OF '96.

BALL NOZZLE ENEMA,

Or the BALL NOZZLE TUBES (Patent), to fit any Enema separately.

The only Perfect Syringe yet produced.

Ball Nozzle Enemas supplied in Three qualities.

Ball Nozzle Fountain Douches.

The Ball Nozzle Tubes are made to fit on to ordinary Bone or Ebonite Rectal Tubes.

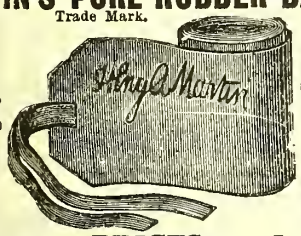
THE BRITISH-AMERICAN BALL NOZZLE COMPANY, 3 Farringdon Avenue, LONDON, E.C.

AND OF ALL WHOLESALE CHEMISTS AND DRUGGISTS' SUNDRIESMEN.

DR. MARTIN'S PURE RUBBER BANDAGES.

Trade Mark.

For Varicose Veins, Ulcers, Eczema of the Leg, Swollen and Weak Joints.



CAUTION.—Please order *Genuine Martin's Bandages*, each being stamped with Dr. Martin's signature. All others are *Spurious Imitations.*

Complete Price List, Trade Discount, and Dr. Martin's Pamphlet post free.

PRICES.

No.		Feet	Inches	Each
3A.	Thin, for ankle, elbow, wrist, and forearm ..	6	2¼	3/6
3.	Thick " " " " ..	6	2¼	4/-
1B.	Thin, for leg below knee	10½	3	5/6
1A.	Thick " "	10½	3	7/6
8.	Thin, for leg and knee	14	3	7/6
7.	Thick " "	14	3	9/6
9B.	Thin, for leg and thigh	21	3	10/6
A.	Thick " "	21	3	13/6

Sole Agents—**KROHNE & SESEMANN,** SURGICAL INSTRUMENT MAKERS, 8 DUKE STREET, MANCHESTER SQUARE, LONDON.

ABSOLUTELY RELIABLE.

TRADE PRICE MODERATE.

SALE UPWARDS OF 4,000,000.

A. LAMBERT & CO.'S SOLUBLE QUININE TABLETS.

A soluble Quinine Pessary of proved absolute reliability. Upwards of 4,000,000 have been sold without a complaint of failure.

We have a list of Special Articles for Chemists which command a ready sale at large profits. A Copy on application post free.

A. LAMBERT & CO.

Surgical Instrument and Appliance Makers,

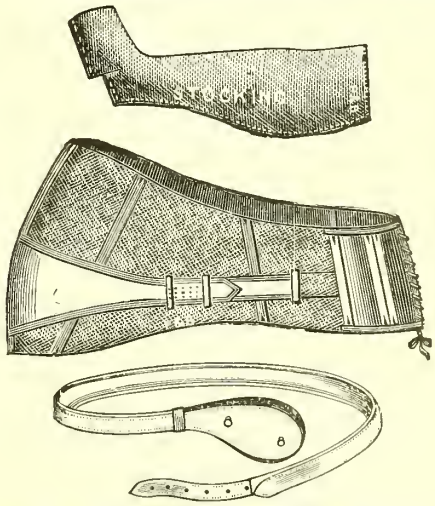
16 DALSTON LANE, LONDON, N.E.

Powell & Barstow (Ltd.),

Makers of

Surgical Instruments and Elastic Stockings.

Ladies' and Gentlemen's Abdominal Belts, &c.



Trusses, Anklets, Leggings, Knee Caps, &c., &c.

Bandages, Bath Gloves, Chest Protectors, Cotton Wool, Druggists' Sundries, Lint, Rubber Goods, &c., &c.

Detailed Price Lists on Application.

58A Blackfriars Road, London, S.E.

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H. GILBERTSON & SONS, LTD.

11 St. Andrew's Street, Holborn Circus, London,

PROPRIETORS AND MANUFACTURERS OF

GILBERTSON'S Registered Boat Feeding Bottles (Rd. No. 113,236)
GILBERTSON'S Little Rosebud Feeding Bottles
GILBERTSON'S Graduated Feeding Bottles
GILBERTSON'S Graduated "Louise" Feeding Bottles
GILBERTSON'S Tropical Feeding Bottles
GILBERTSON'S Dispensing Bottles (No. 118,583)
GILBERTSON'S Graduated Measures
GILBERTSON'S Ideal Bed Pans

ALSO

SCHWEITZER'S DANDELION COFFEE, & BROWN'S BENZINE, &c.

WILLIAM TOOGOOD.

TOOGOOD'S IMPROVED PATENT

EARTHENWARE COVERED POTS

Are claimed to be the most Perfect and Convenient yet offered to the Trade.

ORDINARY THICKNESS—

1 dr.	2 dr.	½	¾	1	1½	2	3	4	6	8 ounces.
1/6	1/6	1/6	1/8	1/10	2/-	2/3	2/10	3/6	4/6	5/6 per doz.

THIN FOR DISPENSING—

½	¾	1	1½	2	3	4	6	8 ounces.
1/7	1/9	2/-	2/2	2/5	3/-	4/-	5/-	6/- per doz.

STAINER'S CHLORIDE OF AMMONIUM INHALING PIPE

REGISTERED No. 250397.

The Cheapest and most Portable in the Market. 27/- dozen.

REID'S INFANTS' FOOD WARMER.

PATENT No. 25268.

A thoroughly practical Apparatus. 6/- each.

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VINCENT WOOD

(Established over 60 Years),

MANUFACTURER ON THE PREMISES OF

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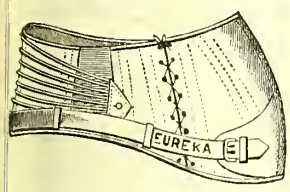

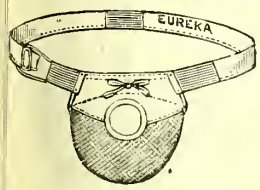

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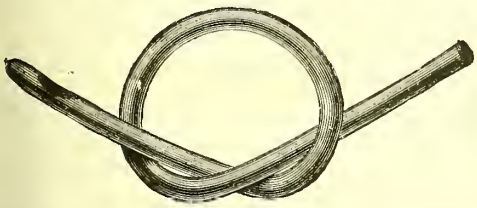

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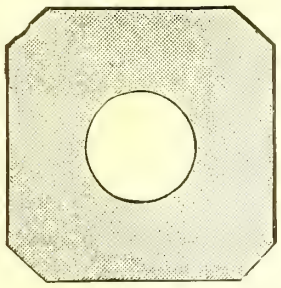
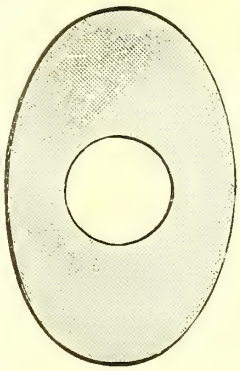
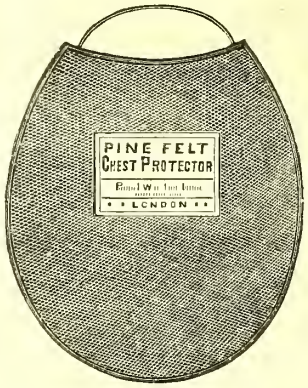

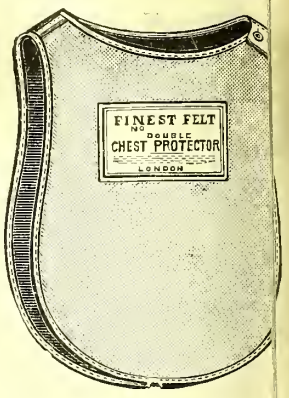

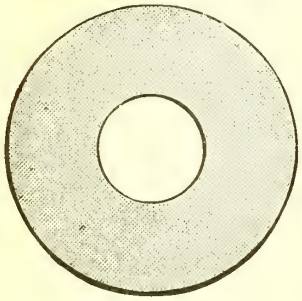

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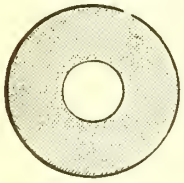
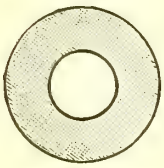
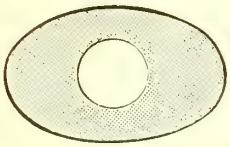

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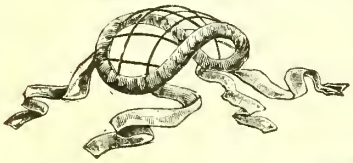

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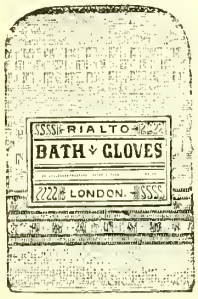

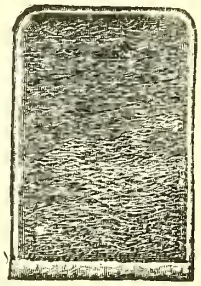

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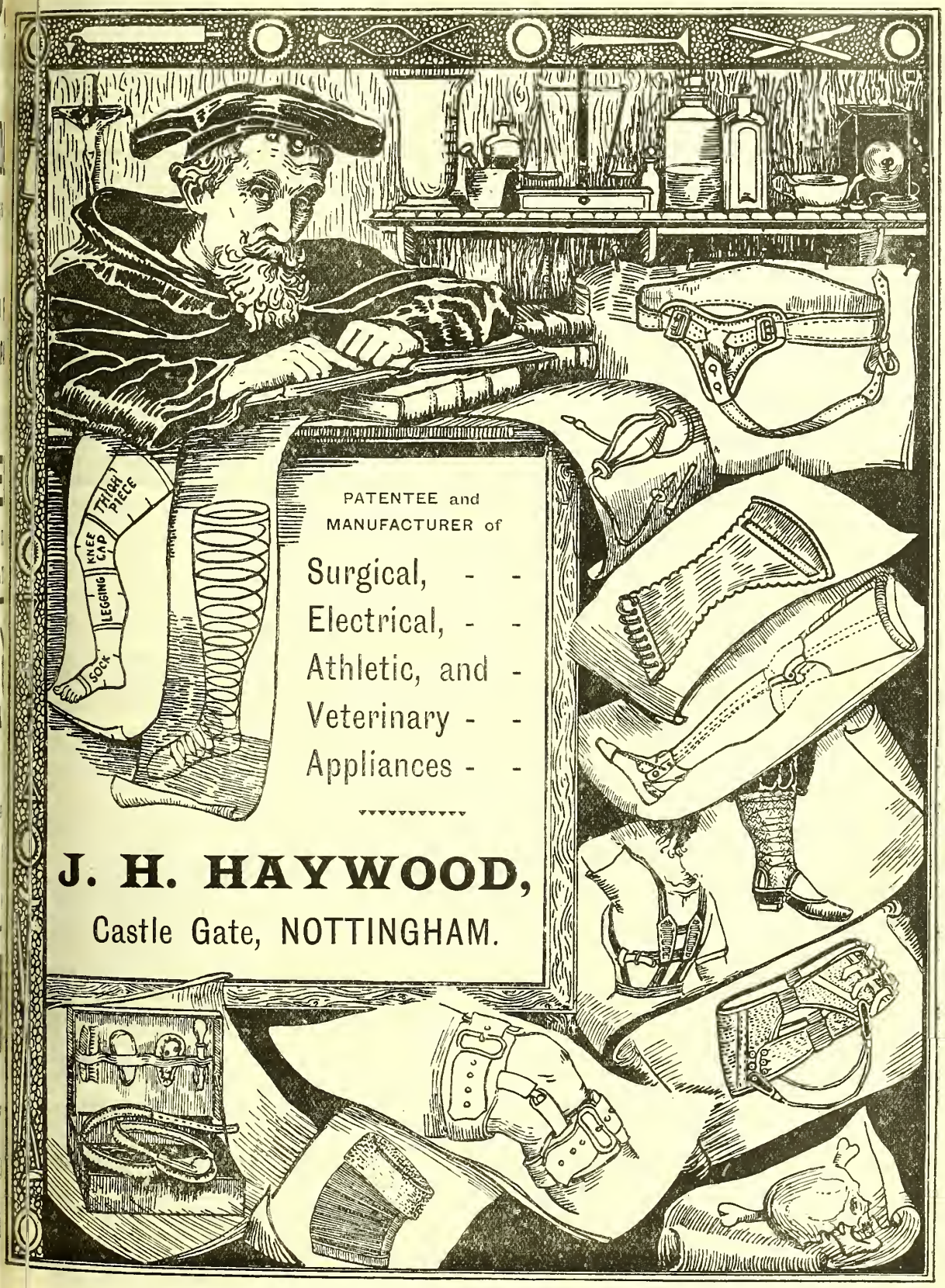
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WHOLESALE PRICES NET. 1/- in Blue Wrappers. 60/- gross. (With Presentation Linen Stretchers.) Carriage Paid on Parcels of £5 and upwards.

THE MARKING INK OF THE WORLD!

Requires no Heating or Waiting Days to Dry before being placed in boil, as other Inks. The Cheapest and Best in the Market. Over 50 years' continuous success, and yearly increasing sale.

Important Notice to the Trade.—I take the opportunity of thanking the trade for their increased support, and thank them for returning t the Wholesale imitations of my world-renowned preparation often substituted for extra profit. When ordering please state clearly CRYSTAL PALACE JOHN BOND'S (DAUGHTER'S) INK required. Kindly examine each parcel received.

Wanted, particulars from those issuing Lists and Annuals for which Advertisements are taken.

Cheapest house in the world for Rubber Stamps of every description. Liberal discount to the Trade. Sample Stamp will be forwarded free to Chemist and Druggists on receipt of trade card.

SEND FOR NEW ILLUSTRATED PRICE LIST, POST FREE ON APPLICATION.

Works and Offices:—75 SOUTHGATE ROAD, LONDON, N.

186

Telegraphic Address—"WILLCOX, SOUTHWARK STREET, LONDON." *Telephone, No. 4740.*

V. H. WILLCOX & CO.

ENGINEERS' STORES

(Works—CASTLE STREET),

34 & 36 SOUTHWARK STREET, LONDON, S.E.

EST PUMP IN THE MARKET.

E "WILLCOX NEW SEMI-ROTARY" PATENT PUMPS.

Th Pumps are double-acting. The working parts are of metal, and the ear and tear is reduced to a minimum; they are lighter and occupy less spa than any other pumps of equal capacity, and are self-contained. We are at present supplying them in twelve sizes.

SIMPLE!

RELIABLE!

DURABLE!

Vrite for New Price List.

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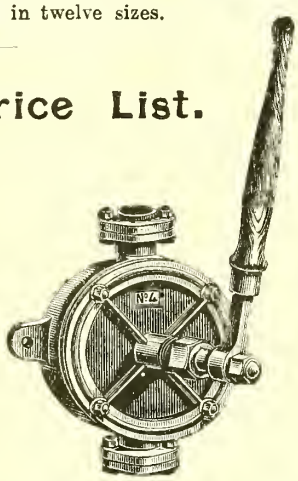

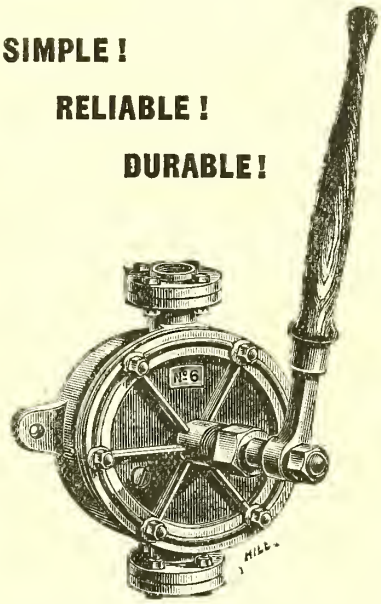

THE

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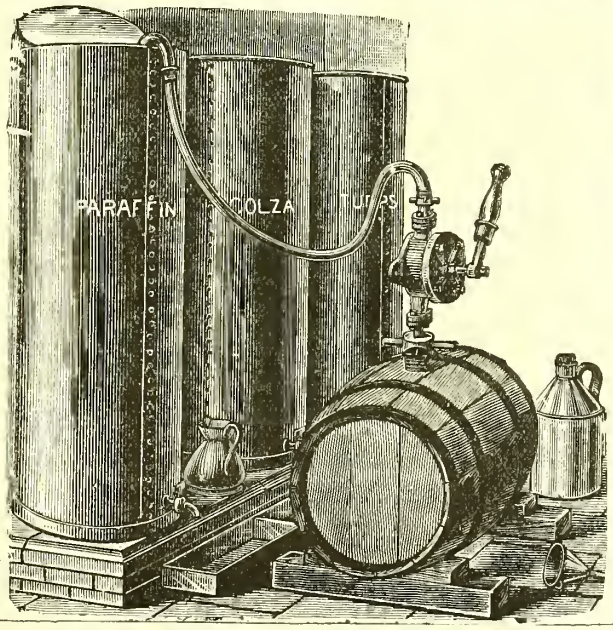
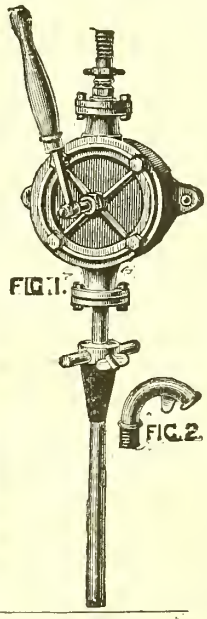
ATENT BARREL PUMP.

r Pumping Oils, Wines, Sits, and other Liquids from Casks, &c.

T is a representation of our "ILLCOX NEW SEMI-ROTARY" PUMP, with Improved T er Barrel Attachment. It is e y to work and simple in c struction, and is admitted to b he best article in the market f Pumping Paraffin Oil, and all k ds of Liquid from barrels or anks into other receptacles.





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THE TINPLATE DECORATING Co. Ld.

HIGHEST AWARDS
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BARCELONA.
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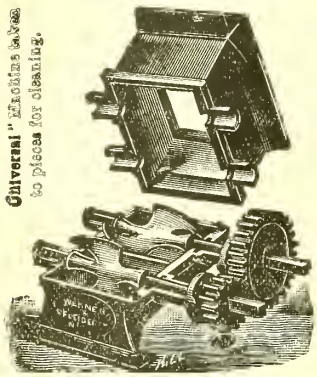
MELYN TIN WORKS, NEATH.

PATENTEES & MANUFACTURERS OF

DECORATED & CRYSTALLIZED TINPLATES

FANCY TIN BOXES & CANISTERS
PRINTED IN COLOURS.
SEAMLESS DECORATED TIN BOXES
FOR POLISHING PASTE &c.



Universal" Machine taken to pieces for cleaning.

Size 3, Type I., for 1-lb. Mass.

THE "UNIVERSAL"
Kneading & Mixing Machine,
Used by all the largest Pill Makers.
SUITABLE ALSO FOR
OINTMENTS, POWDERS, AND MASSES of any Consistency.

PILL MASSING MACHINES

PILL PIPE
CUTTERS,
ROUNDERS, COATE
"SPIRAL BRUSH"
POWDER-SIFTE
(WITH INTERCHANGEABLE SIEVES)
And every Accessory for the Pill Ro

WERNER, PFLEIDERER & PERKINS (LIMITE
Head Offices & Showrooms—117 Queen Victoria St, E.C.
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Contractors to the War Offices of all the Great Powers and other Governmen

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NEW AND POWERFUL DISINFECTING FLUID.
(NON-POISONOUS.)
More powerful than Carbolic Acid, and does not stain or burn in use.

"MICROBMORT" FOR SURGICAL USE.
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READ HOLLIDAY & SONS, LIMITED
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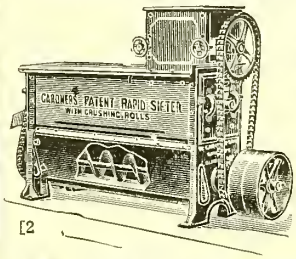
GARDNER'S PATENT
"RAPID" SIFTERS & MIXERS



Are now working in Almost Every Trade where DRY POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation.

FOR HAND OR POWER.

PRICES from 48s. to £90.

CATALOGUES FREE.

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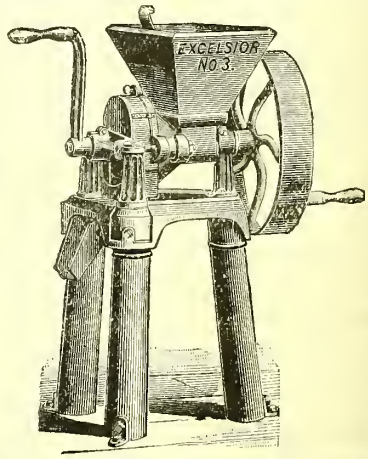
WM. GARDNER, Engineering Works, GLOUCESTER.

A NEW MILL,
THE "EXCELSIOR."
MADE IN THREE SIZES, FOR HAND OR POWER.
Suitable for Grinding
Wet or Dry Corn, Coffee, Cocoa, Spices, Drugs, Ro
Seeds, Herbs, Barks, Rock Salt, or similar substan

Simple. Cheap.
Durable and Efficient.

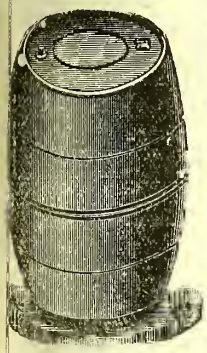


Send for Price List.
All Sizes in Stock

BENNETT, SONS & SHEARS, LIMITE
Engineers and Coppersmiths,
167 Kingsland Road, LONDON, N.
ESTABLISHED 100 YEARS.
Telegrams—"Coppersmiths London." Telephone 59,095 Dalston.

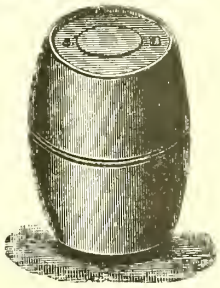
CAIRD'S
STAMPED STEEL BARRELS

NO COOPERAGE, NO LEAKAGE, NO LOSS BY EVAPORATION.



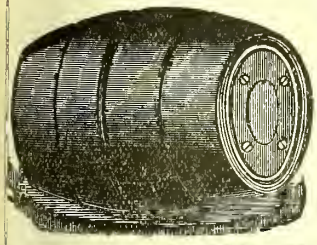
Are less Dangerous than Wood Barrels.

For Carrying and Storing
Chemicals, Spirits, Acids, Varnishes, Oils, and Other Liquids.
ALSO
White Lead, Paints, Resin, Gums, Wax, Soft Soap, and other Dry or Semi-Liquid Goods.



Occupy Less Space, are Stronger and more Durable than Wood Barrels.

CORRESPONDENCE INVITED.



SOLE MANUFACTURERS,
IRON & STEEL PLANT CO.
LIMITED,
3 Crown Court, Old Broad St.,
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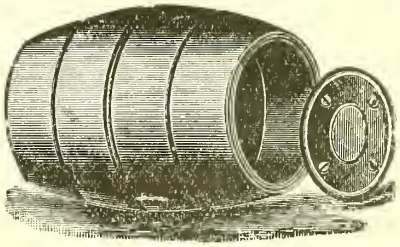
WORKS—Barrow-in-Furness.



THE WANT OF THE DAY!

NO MORE SOFT LINEN WHEN STARCHED.

Used in the Royal Laundries.
Should be used in Every House.

The Greatest Boon ever offered to the Laundress for imparting an IVORY-FINISH to Starched Linen, Laces &c. It does not stick to spider-web-like materials.

CRITCHLEY'S STARCH GLOSS
Registered No. 4037.

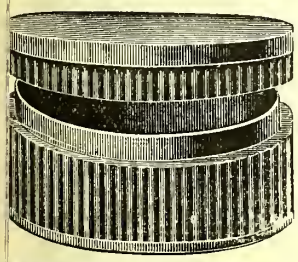
Once Tried, Always Wanted.
Makes Old Linen Like New.

From the Chief Laundress to H.R.H. the Prince of Wales:—West Newton, near Lynn, Norfolk, Aug 29, 1879. SIR,—Having tried your "STARCH GLOSS," I certainly think it a great improvement—far superior to any I have tried. Yours truly.
To Mr. CRITCHLEY. E. ELDER.

Sold by Chemists and Druggists, Grocers, Oilmen, &c., in Packets at 1d., 3d., 6d., and 1s. each.

PREPARED ONLY BY
T. CRITCHLEY, CHEMIST AND WHOLESALE DRUGGIST, **BLACKBURN.**
LONDON DEPOT—107 WHITECROSS STREET, E.C.

THE "STIPENDUM" STOPPER CO., LIM.



47 LAMB'S CONDUIT ST., LONDON, W.C.
MANUFACTURE THE FOLLOWING SPECIALITIES—
"STIPENDUM" CORK STOPPERS, in all sizes.
"STIPENDUM" CORK-LINED CAPS, for Pomade Bottles.
"STIPENDUM" OPENERS, for Stoppered Aerated-water Bottles

"STIPENDUM" GREASE-PROOF COVERED POTS.

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly-fitting lids, are practically unbreakable, and the only articles really answering the purpose intended.
To be had of all Druggists' Sundriesmen. Wholesale only of the Company.

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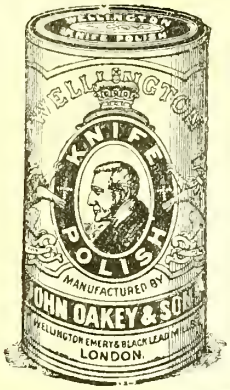


OAKEY'S WELLINGTON KNIFE POLISH.

GOLD MEDAL LONDON 1884

THE ORIGINAL & ONLY GENUINE PREPARATION.

Oakey's "Wellington" Knife Polish.

Prepared expressly for the Patent Knife-Cleaning Machines, Rubber and Buff Leather Knife Boards. Knives constan cleaned with it have a brilliant polish, equal to new cutlery. **Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. eac**

Oakey's "Wellington" Knife Boards.

Prevent friction in cleaning and injury to the Knife. Made in all sizes. Oakey's "Wellington" Knife Polish should used with the Boards.

Oakey's "Polybrilliant" (Registered).

ROUGE POMADE FOR CLEANING ALL METALS.

The best article for expeditiously and brilliantly polishing equal to new, Brass, Copper, Pewter, Tin, Britannia Metal, Silv Electro-Plate, &c. It is perfectly free from Acid, Mercury, or any other injurious and poisonous ingredient, and, bei composed only of the very finest materials, cannot scratch or injure the article cleaned.

Sold in Tin Boxes, at 1d., 2d., 3d., and 6d. each.

Oakey's Furniture Cream.

For cleaning and polishing Furniture, Patent Leather, Oilcloth, &c. **Stone and Glass Bottles, 6d. and 1s. each.**

Oakey's Brunswick and Berlin Black.

For beautifying and preserving Stoves and all kinds of Ironwork.

In Bottles, 6d., 1s., and 2s. each; and in ½ and 1 Gallon Cans.

Oakey's "Wellington" Block Black Lead.

Manufactured expressly with a view to the saving of time and labour. This article imparts an immediate, brilliant, a lasting polish to all kinds of Stoves, Ironwork, &c. No WASTE, DIRT, or DUST in the use.

Sold in Blocks, 1d., 2d., and 4d. each, and 1s. Boxes.

Oakey's Silversmiths' Soap (*Non-Mercurial*).

The best and cheapest article for cleaning and polishing, without waste or dirt, Silver, Electro-Plate, Britannia Metal, Ti Zinc, Plate Glass, Marble, Gas Globes, Lustres, Windows, &c. Guaranteed perfectly free from Mercury and other injurio ingredients frequently used in the manufacture of Plate Powder. **Tablets, 6d. each.**

Oakey's "Round" Black Lead.

½d. and 1d. Blocks, and 6d. Boxes.

Genuine Refined Pencil Black Lead.

1-oz., 2-oz., 4-oz., 8-oz., and 16-oz. Packets.

Oakey's Polishing Paste.

The best article for cleaning and brilliantly polishing Brass, Tin, Copper, Pewter, Britannia Metal, Glass, &c.

Tins, 1d. and 2d.; Pots, 6d. and 1s. each.

Oakey's Non-Mercurial Plate Powder.

In Card Boxes, 6d. and 1s.; and Tins, 2s. and 4s. each.

Oakey's Genuine Silversmiths' Rouge.

For cleaning Gold and Silver Plate. **Boxes, 6d. and 1s. each.**

Oakey's Genuine Emery Cloth.

The most economical for all purposes. Each sheet of this quality is stamped "OAKEY'S GENUINE."

Oakey's Cabinet Glass Paper.

The original and best, made expressly for Cabinet-makers, Carpenters, and others. Every sheet warranted and stampe "Oakey's."

Wellington Emery & Black Lead Mills, Westminster Bridge Rd., London, S.E

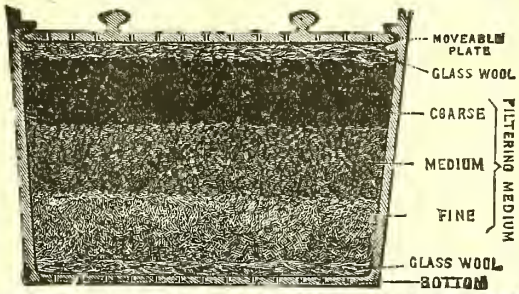
Highest Award & Prize Medal, Philadelphia Exhibition, 1876; and Boston, 1883. Gold Medal, Crystal Palace, 1884.

ABSOLUTELY PURE WATER
BY USING THE
MAWSON FILTER.

Free from Bacteria or Disease Germs,

Free from Organic Impurities,

Free from Poisonous Lead Salts and Excess of Lime.



Pure Spring Water produced from Rain Water by a perfect imitation of Nature's Process. This is the only Filter that will give these results.

In Glass and Earthenware for household use and large supplies, Iron and Enamelled Ware for ships, and Aluminium for tourists.

The Mawson Filter Co.
WORKS—
NEWCASTLE-ON-TYNE.

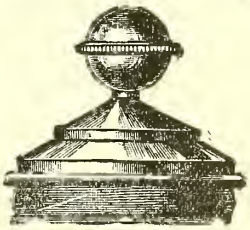
NEW PATENT
AIR-TIGHT CHEMIST JAR.

A slight turn of the knob presses the indiarubber Band against the glass, and renders the vessel absolutely air-tight. The Stopper is made of pure Nickel, of handsome shape.

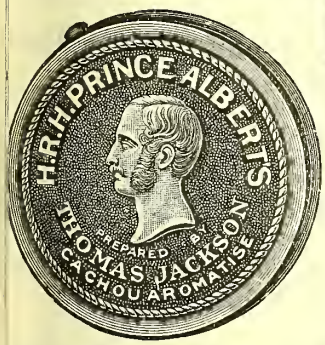
INVALUABLE FOR SHOW BOTTLES, CHEMISTS, CONFECTIONERS, ETC.

Samples and Prices of all Chemists' Sundriesmen.

C. MELIN, [2]
37 CRUTCHED FRIARS, MARK LANE, E.C.



Section of the Nickel Stopper when closed.



PRINCE ALBERT'S CACHOUX

HIGHEST AWARD COLUMBIAN EXPOSITION, CHICAGO, 1893.

These Cachoux are supplied only in Brass Boxes, of which there are three sizes.
- No. 4's at 3/6 doz. (*Export*).
- No. 5's at 4/- doz. (*Home Trade*).
- No. 6's at 7/- doz.

SUBJECT TO TRADE DISCOUNTS.

All Labels, Titles, and Trade Marks registered in Europe and America.

"BENZINE RECT."
JACKSON'S.

SIXPENNY & SHILLING SIZES,
4s. and 8s. per dozen.

A Genuine Benzol.

JACKSON'S CEMENT
Chinese Diamond.
It has stood the test of time in all quarters of the globe.
In Bottles at 3/6 and 7/- per dozen.

ADHESIVE, TENACIOUS, AND KEEPS WELL.

JACKSON'S LIQUID GLUE.

SIXPENNY and SHILLING Sizes, at 3/6 and 7/- per doz.
BRUSHES INCLUDED. (B)

SPECIALITIES FROM THE LABORATORY OF THOMAS JACKSON, Strangeways, MANCHESTER.

"TUSON'S" SPECIALITIES

FOR

The House, the Field, and the Stable.

As used by H.M. Board of Agriculture, London County Coun[illegible], Hospitals, Institutions, Sanitary Authorities, and others for the last ten years.

TUSON'S DISINFECTANTS, Fluid an[illegible] Powders, True Disinfectants. Cheapest and Best.

TUSON'S SHEEP DIP, Fluid & Powde[illegible].

TUSON'S SULPHUR CANDLES.

TUSON'S Specially Prepared SULPHU[illegible], for Diphtheria.

TUSON'S "ANTI-FLOWER PEST." Destr[illegible] Thrips, Mealy Bug, and Green Fly, without injury to bloom or foliage

TUSON'S "TUROSA," delicately perfumed, for soft[illegible]ing water for toilet purposes and the bath.

TUSON'S WEED KILLER.

TUSON'S CHLORIDE OF ZINC, all strengt[illegible].

TUSON'S EMBROCATION, for Rheumatism, Sprai[illegible], and Bruises.

TUSON'S Carbolic Disinfectants & Soa[illegible].

Messrs. TUSON'S tenders for Disinfectants, &c., this year have been accepted b[illegible] numerous Sanitary Boards.

Medical Men, Veterinary Surgeons, and Hospital Authorities highly recommend [illegible]e use of "TUSON'S" goods. See Testimonials.

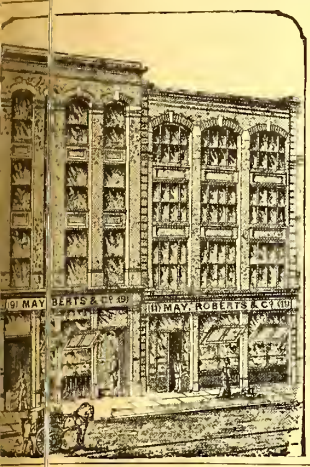
IT WILL PAY YOU TO PUSH OUR GOODS.

LIBERAL TERMS TO THE TRADE.

TUSON'S DISINFECTANTS CO., LIM[illegible].

(J. E. J. JOHNSON, F.I.C., F.C.S., Managing Director),

Crown Wharf, Dace Rd., Old Ford, London, E.



Three Minutes' Walk from Aldersgate St. Station.

ILLUSTRATED PRICE LIST.

Revised January, 1897.

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REGISTERED TRADE MARK M&Co LONDON

NO TRAVELLERS.

Their Expenses given to Buyers.

CARRIAGE PAID!

See Terms.

MAY, ROBERTS & CO., LONDON.

Telegraphic Address: "FEEDING BOTTLES LONDON."
Telephone No. 6889, Holborn Exchange.

ALMOND SHAVING CREAM.

BURNT-IN LABELS.

6d. pot ... ... per doz. 3/4
1/- pot ... ... „ 6/-

ARECA NUT TOOTH PASTE.

BURNT-IN LABELS.

6d. size ... ... per doz. 3/4
1/- size ... ... „ 6/-

CHERRY TOOTH PASTE.

BURNT-IN LABELS.

6d. size ... ... per doz. 3/4
1/- size ... ... „ 6/-

COSMETIQUES, DUCHARD et CIE.

White, Brown, and Black. In Glass-top Boxes. One Dozen.

Fig. 2.

ROUND, in Fancy Slide Cases, as Fig. 1 ... ... 2/2 per dozen.
OVAL, in Tinfoil, as Fig. 2 ... ... No. 1, 1/3; No. 2, 2/3; No. 3, 3/3 „
OVAL, in Tinfoil with Caps... ... ... No. 2, 2/9; No. 3, 3/9 „
OVAL, in elegant Flat Slide Card Cases, as Fig. 3 ... ... 3/3 „

The above are got up most attractively, with very artistic Labels and Cases in Colours.

Fig. 3.

FULLER'S EARTH.—*Levigated.*

1d. boxes, per gross 4/3
2d. boxes, per gross 7/-
6d. boxes, per doz. 3/-

TOOTH POWDERS.

White Rose	Quinine	Pearl
Areca Nut	Charcoal	Astringent
Saponaceous	Eucalyptus	Lavender
Violet	Carbolic	Coral

Assorted in Glass-top Show-cases, per doz. 3/6.

VIOLET POWDER.

(Warranted Pure Starch.)

1d. boxes ... ... 4/6 per gross
2d. „ ... ... 7/6 „
6d. „ ... ... 3/6 per doz.
1/- „ ... ... 6/- „

The above Specialities are well got up. Subject to usual terms. Ask for Samples.

MAY, ROBERTS & CO., LONDON.

Cadbury's Cocoa

ABSOLUTELY PUR therefore BEST.

Cadbury's is "The Typical Cocoa of English Manufacture, Absolutely Pure." *The Analyst.*

NO CHEMICALS USED IN CADBURY'S AS IN THE SO-CALLED PURE FOREIGN COCOAS.

UNDER EMINENT SCIENTIFIC CONTRCL

"APENTA"

THE BEST NATURA APERIENT WATER.

Trade Prices:

Per Case.

25 Large Bottles	-	20/-
50 Small ,,	-	32/6
100 Quarter ,,	-	32/6

Carriage Pai to any Railw Station in th United Kingd

5 per cent. Discount upon orders for 10 Cases.

TERMS:—Six Months' Credit from date of Invoi Net Cash.

The retail prices printed on the labels are **1/3** large bottle, **1/-** per small bottle, and **6d.** per quarter bottle.

THE APOLLINARIS COMPANY, LI

4 Stratford Place, Oxford Street, London, W.

Printed by Spottiswoode & Co., New-street Square; and Published at the Office 42 Cannon Street, in the City of London.—*April* 17, 1897.